

FENDT

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Fendt Rogator 600 – Product presentation.

The self-propelled for professionals.

As at 03/2024

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At a glance.

Fendt Rogator 600 – From knowledge to perfection.

From knowledge to perfection. We have perfected over many years a number of key technologies in our innovative self-propelled crop sprayer, the Rogator 600. The Rogator 600 enables precise boom management, easy handling and optimum, reliable application.

- Perfect boom position and ground following
- Low centre of gravity
- 5000/6000 l tank volume and 500 or 660 l clear water
- Injection lock with OptiFlow control panel
- An inner turning radius of just 3.14 m.
- Up to 2.05 m high tyres and 35° steering angle.
- Smooth underbody with up to 120 cm ground clearance for the greatest plant protection
- HydroStar CVT drives in combination with wheel hub motors
- CDS ControlDriveSystem
- 40/50 km/h at reduced engine speed
- Centrifugal pump with 785 l/min displacement volume
- Fendt VisionCab with > 4 m³ volume, the best all-round vision, climate control, Category 4 – certified cabin with maximum legroom
- 16 t towing capacity



Chassis.

Dimensions

Chassis

Weight



Dimensions.

Effortless road-travel with the Fendt Rogator 600

All models with 36 m boom and 480/80R50 tyres:

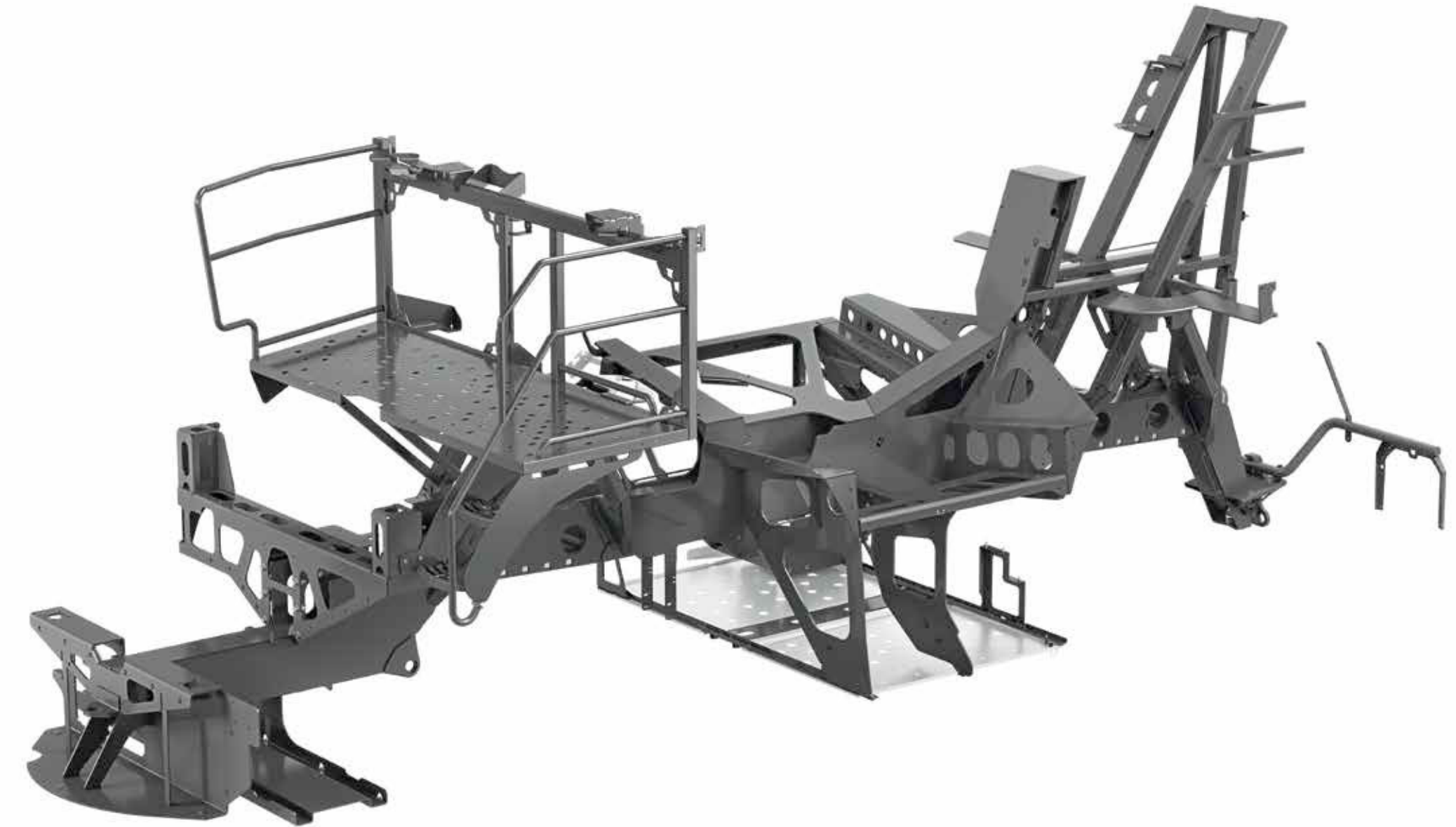
- < 4 metres overall height for road travel
- < 2.55 metres outside width for road travel
 - 40 km/h legally permitted (France)
 - Easy manoeuvring on narrow country roads
 - No additional road licences required



Chassis.

Perfectly customised and unique single-beam chassis

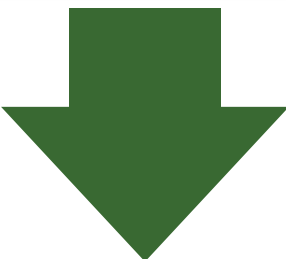
- Ideal weight distribution
- High stability with relatively low weight
- Narrow outside width
- Optimised layout of the components
- Low centre of gravity due to the positioning of the engine between the axles
- Large steering angle of 35° thanks to the single-beam chassis design
- Easy access for all maintenance checks
- Choice of wide tyres with large diameters
- Modular design: one frame, three models



Weight.

Optimum weight distribution

- Weight 645 – 5,000 litre tank, 33 m, 380 tyres for row crops: +/- 12,000 kg
- Weight 655/665 – 6,000 litre tank, 36 m, 480 tyres: +/- 12,500 kg



Weight distribution

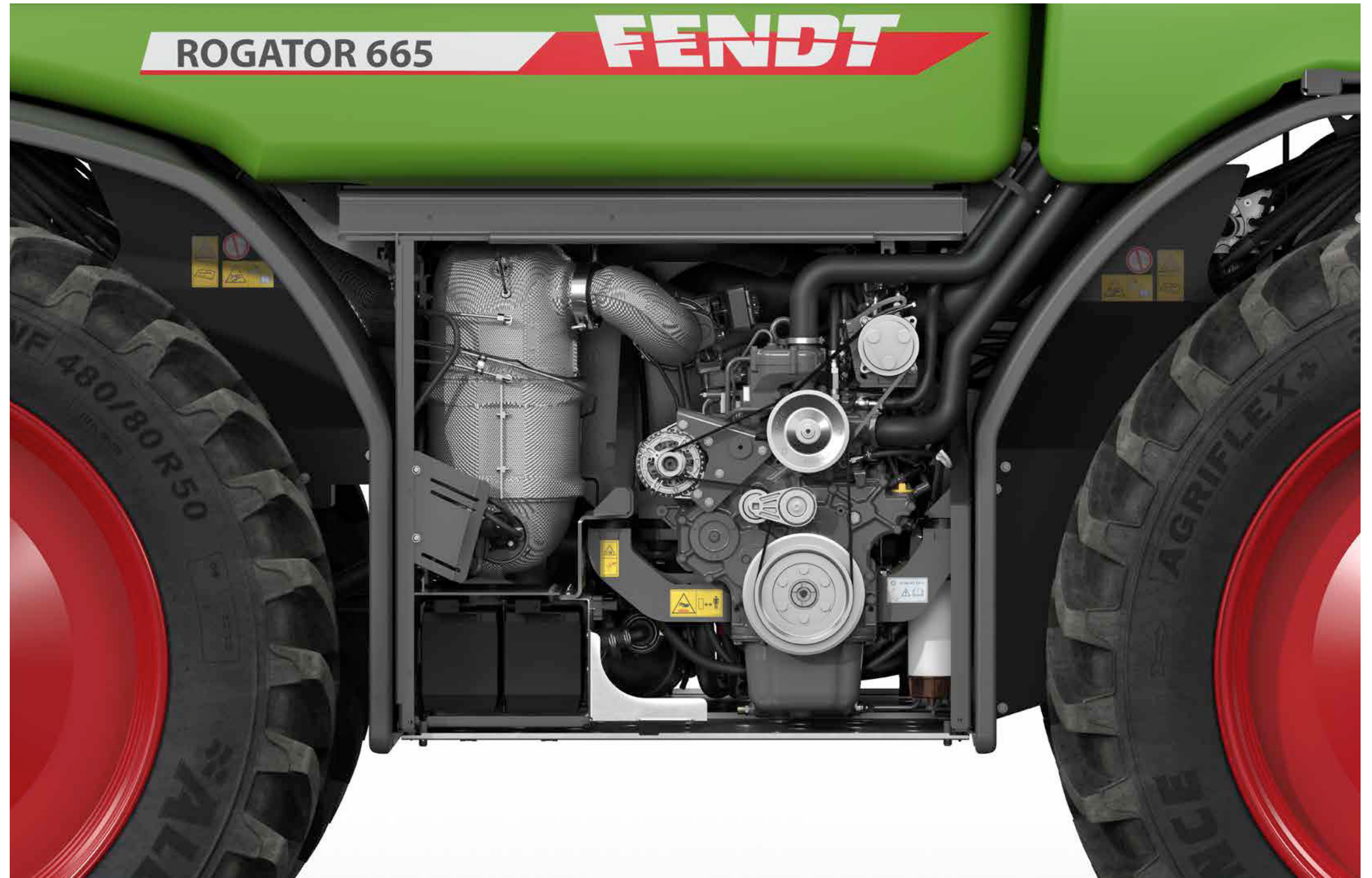
Rear	Spray booms	Front
45 %	Closed	55 %
50 %	Open	50 %

Engine.

Fuel

Cooling

Filter

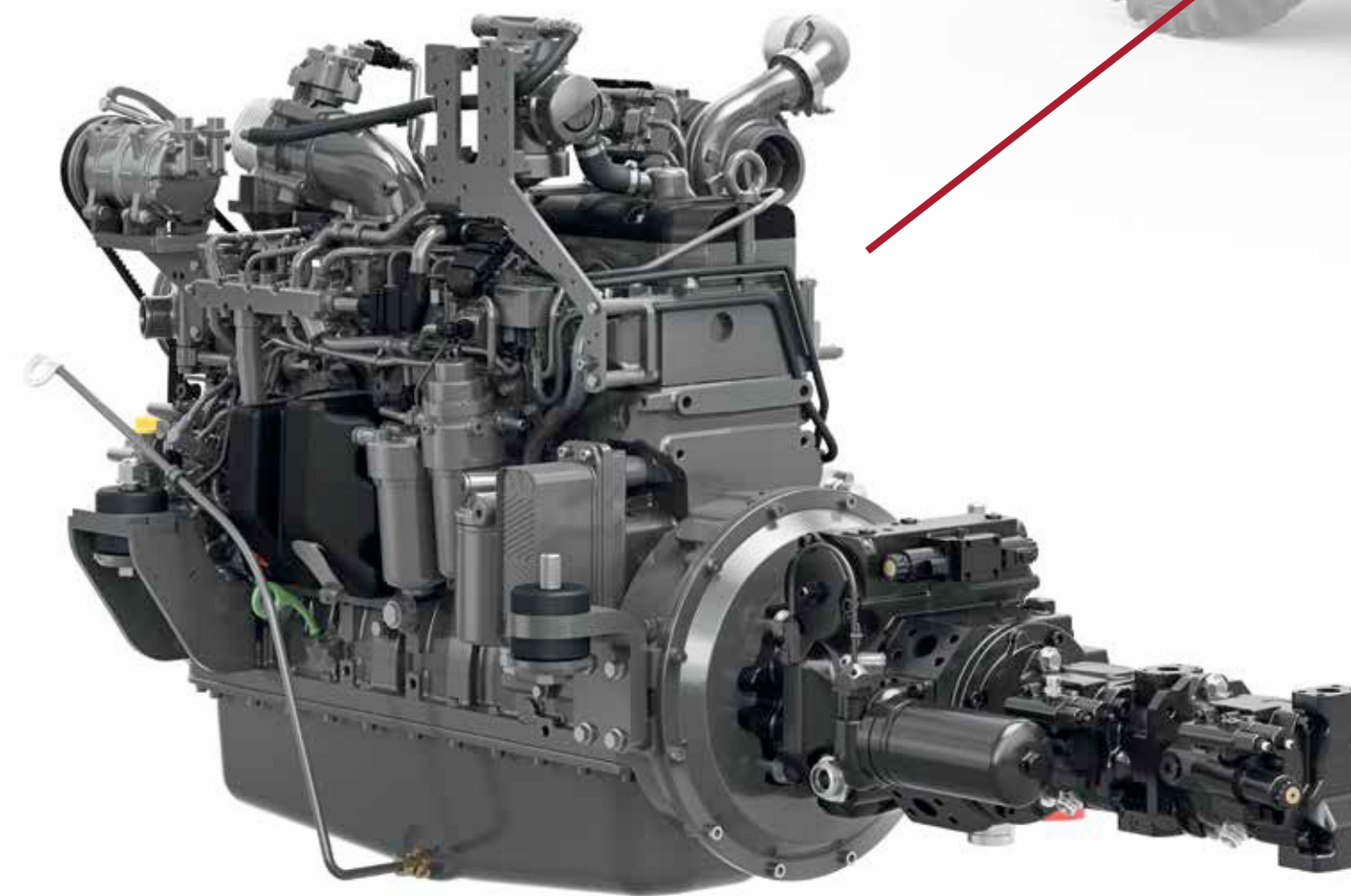


Engine.

Features

- Ideal torque curve
- Communication of power management with drive train to reduce consumption, “TMS”
- 40 km/h at 1750 rpm engine speed*
- Fuel efficiency through optimised combustion process
- Immediately powerful and easy to turn
- Low noise level in the cab due to low engine speed and the position of the engine
- Excellent ease of maintenance
- Lower internal temperatures through the use of AdBlue. Greater reliability of the engine.
- No EGR valve required to meet emission stage 5; uses a DPF
- Optional additional fuel filter

* 50 km/h available as an option, depending on country and model (see product guide for more information)



AGCO Power 6 cylinders with 7.4 litre cubic capacity



Optional additional fuel filter



Fuel.

Features of the fuel system

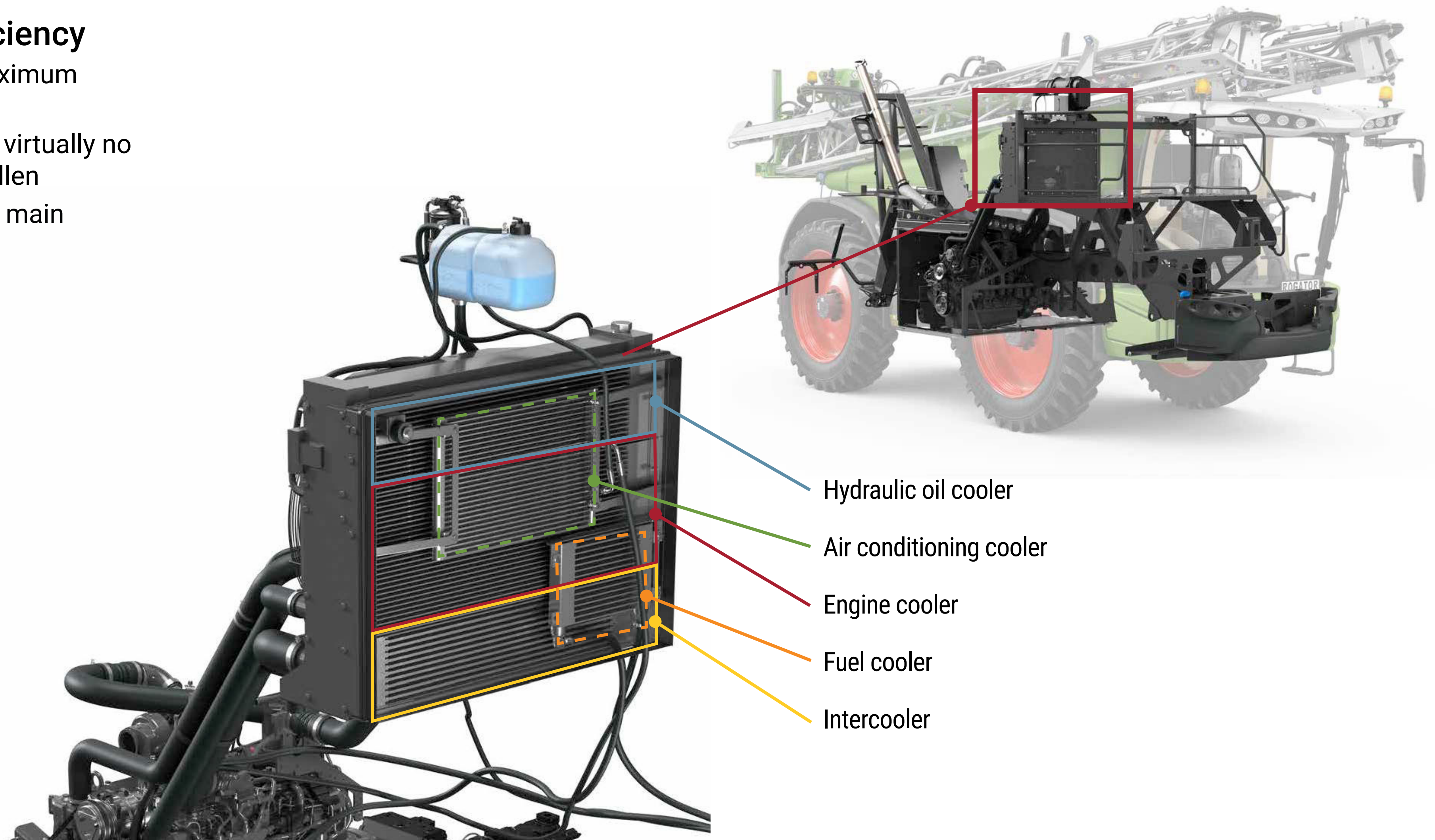
- Fuel tank 310 l
- AdBlue tank 50 l
- Both tanks are integrated into the front bumper
- Filler neck accessible from the ground
- Replacement interval for fuel filter 1,000 hours
- Lockable tank cap as standard
- Maximum 7 % biodiesel permissible in accordance with DIN EN 14214
 - Engine power drops by a few %
 - Oil change interval reduced by half
 - Non-esterified, crude or cold-pressed vegetable oil is not permitted!



Cooling.

Easy cleaning and high efficiency

- Stack design of the coolers for maximum efficiency of the individual coolers
- Cooler unit in an elevated position; virtually no contamination from crop dust / pollen
- Easy to access for cleaning via the main platform



Cooling.

Efficient and automatic engine cooling

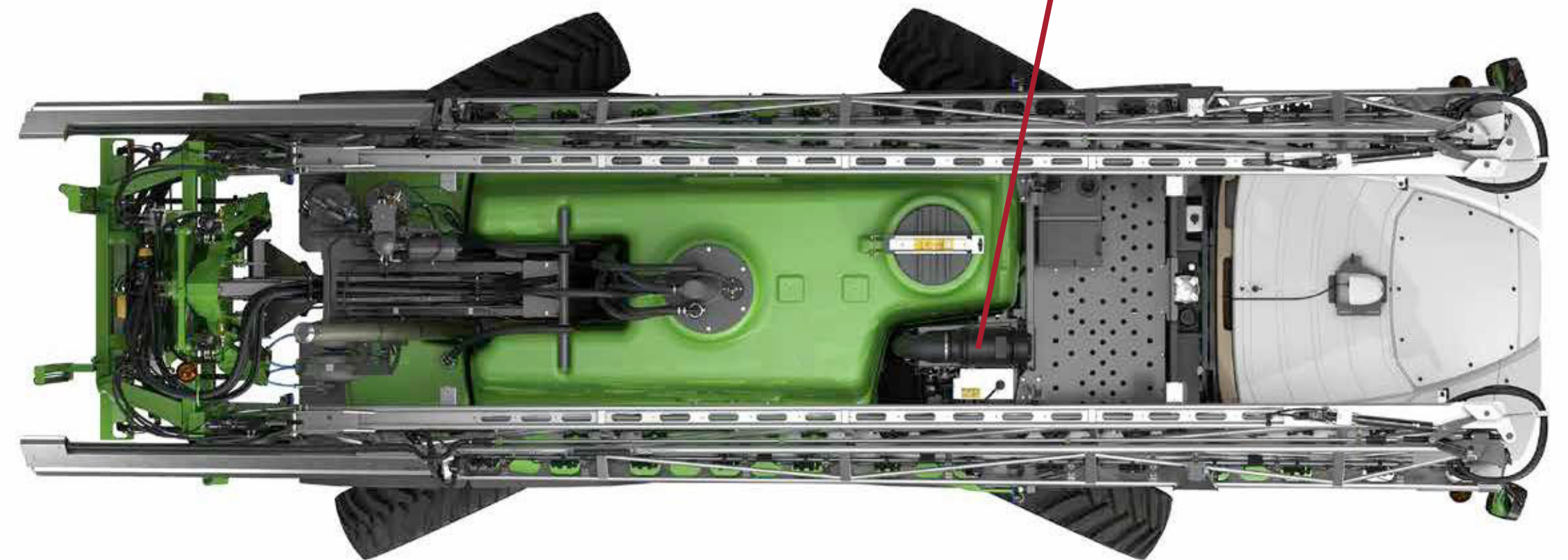
- Hydraulic fan
- Fan speed is automatically controlled via the following parameters:
 - Engine coolant temperature
 - Temperature of the engine intake air
 - Hydraulic oil temperature
- Reduced fuel consumption
- Reduction of the noise level



Filter.

Positioning

- High positioned air filters, therefore only minimal contamination from plant/flower dust and other foreign bodies
- Air filters are easily accessible for cleaning via the main platform



Fendt Rogator 600 – HydroStar CVT

HydroStar CVT.



Hydrostatic pump

Brakes

Variable delivery volume

Automatic traction control

Control of the engine speed



Hydrostatic pump.

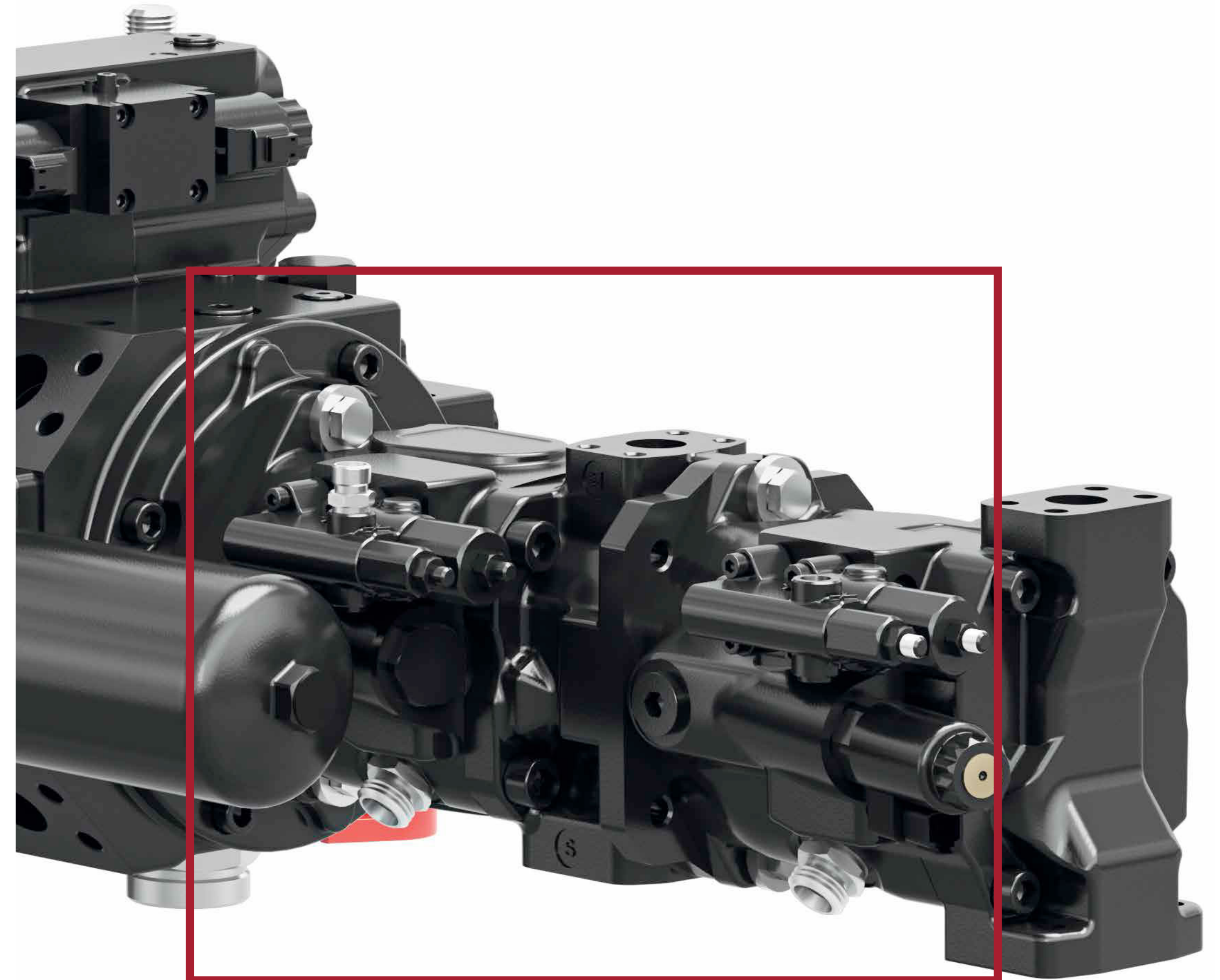
Rogator 645

- Drive pump with 145 cm³
- Wheel motors with 85 cm³

Rogator 655/665

- Drive pump with 175 cm³
- Wheel motors with 85 cm³

- The HydroStar CVT drive has a variable displacement pump and variable displacement motors on the wheels



Brakes.

Hydro-mechanical braking system

- Speed control lever can be used to bring the Rogator to a complete stop, even at top speed
- Engine speed is automatically limited to prevent the engine from overspeeding when the Rogator is braked with the speed control lever
- Superior braking power thanks to the pedal-operated, integrated disc brakes. Two levels, one for supportive braking force and one for emergency braking
- Wet disc brakes and parking brakes are integrated into the externally mounted planetary gearboxes and thus protected against contamination



Variable delivery volume.

Adjusted oil volume for the wheel drive

The variable displacement pump and variable displacement motors for the wheel drive always provide the exact amount of oil required depending on the driving speed and the torque to be applied.

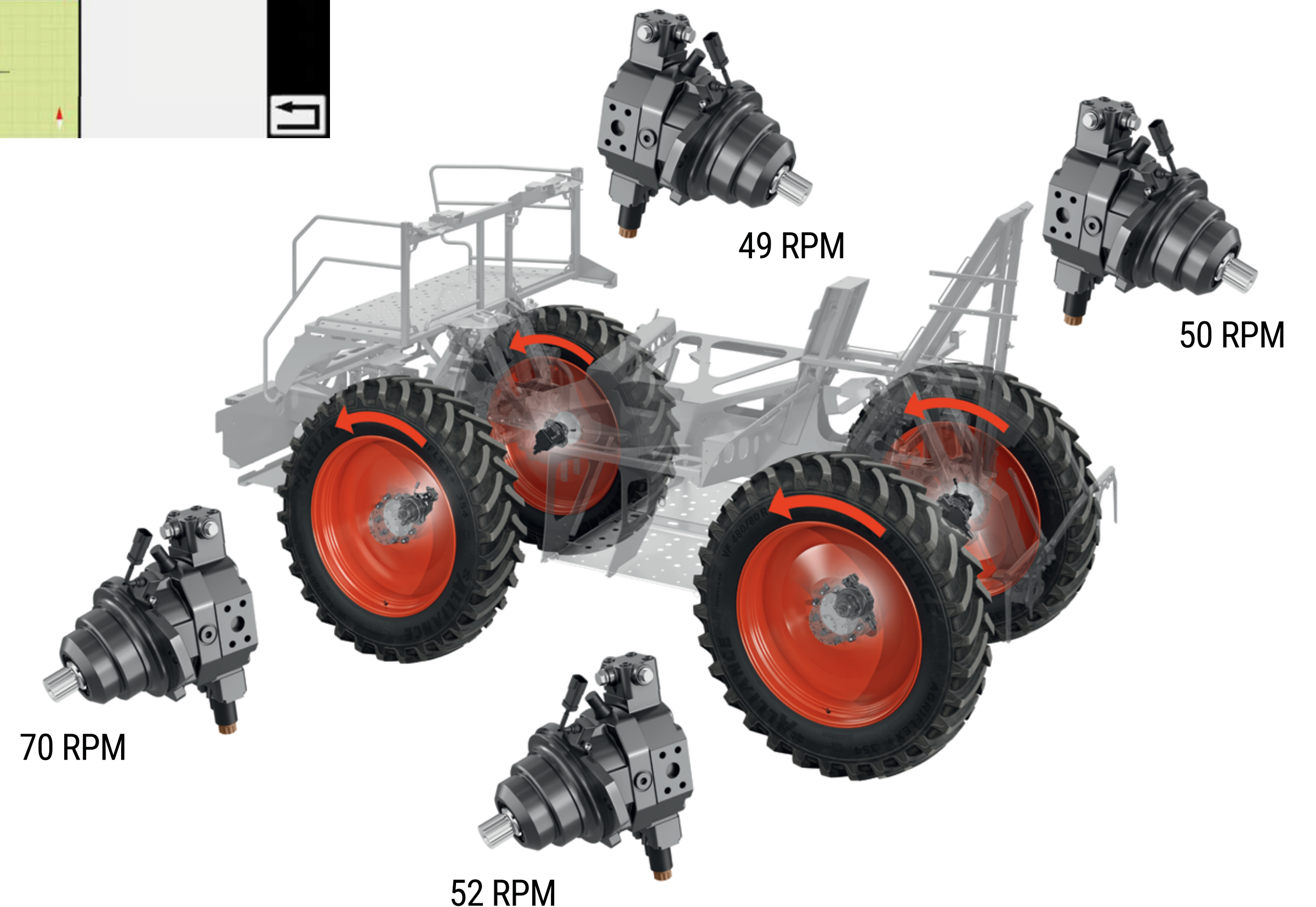
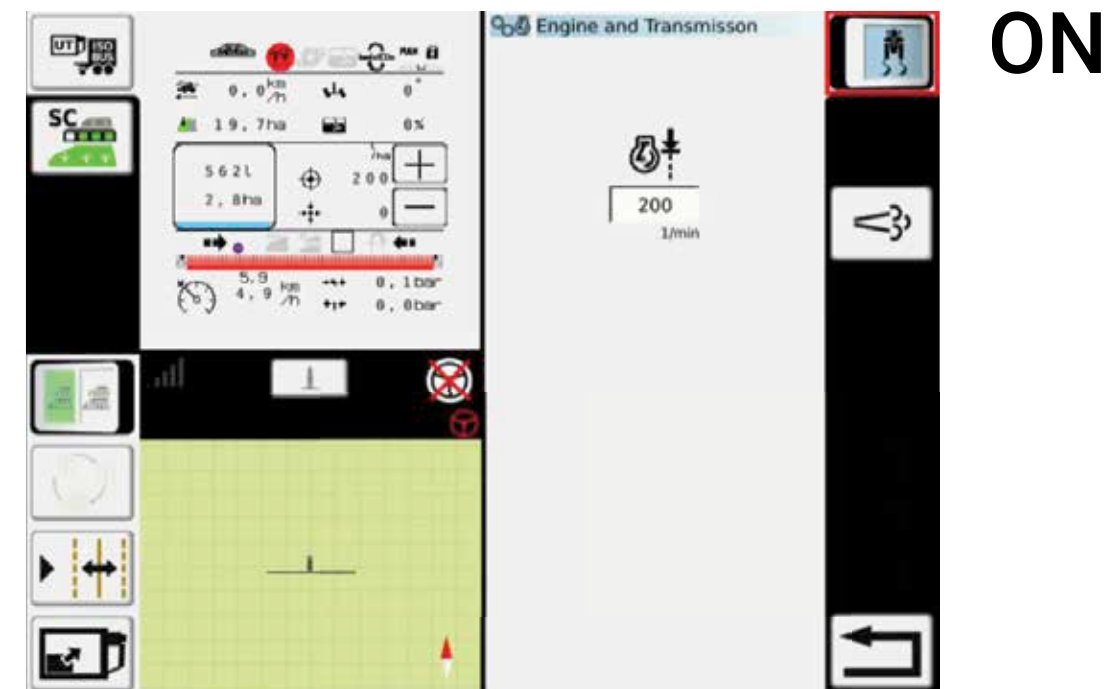
- No excessive pressure
- Less heat
- Less fuel
- Less noise
- Max. stroke = max. volume = max. torque
- Min. stroke = min. volume = max. speed



Automatic traction control.

Perfect traction

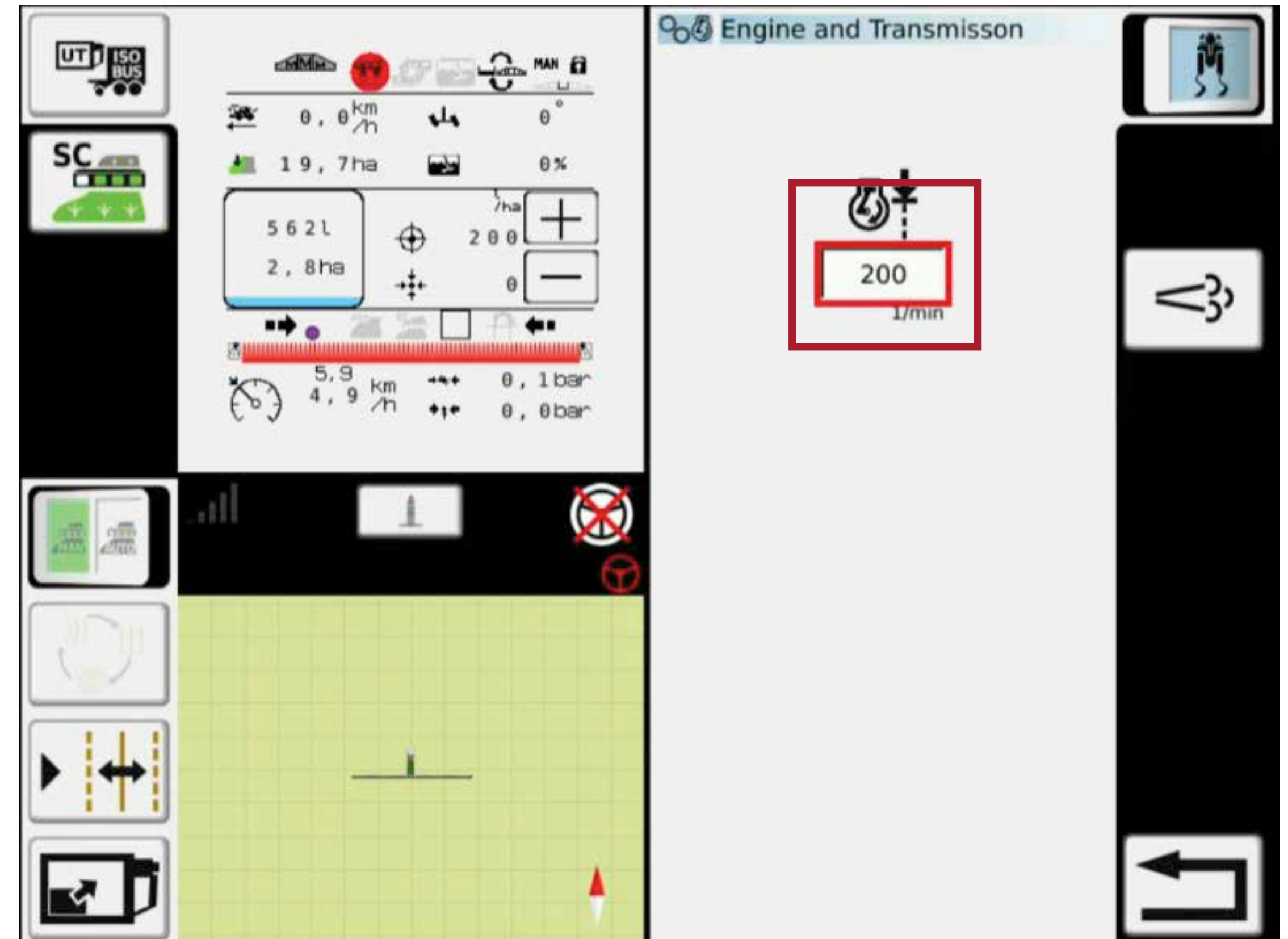
- Anti-slip control is always active
- Permanent four-wheel drive ensures optimum traction in all conditions
- Controls the speed of the individual wheels independently of each other
- Stroke of the hydraulic motor is reduced to prevent wheel slip
- When cornering, the wheels on the inside of the turn are slowed down to avoid ruts
- Can be switched off to meet specific conditions
- Can be set by the driver during operation; is automatically activated when the engine is started
- Switching off the traction control merely allows more slip before the software intervenes, it is not completely deactivated



Control of the engine speed reduction.

Default settings

- The extent of the engine speed reduction before the automatic reduction of the driving speed can be preset (100 – 400 rpm)
- If the engine speed is lowered before the driving speed is reduced, maximum power is obtained (see example on the right)
- If the engine speed is lowered less before reducing the driving speed, maximum fuel efficiency is achieved



Control elements for drive.

Multi function lever

Reversing

Cruise control

Performance management

Automatic speed adjustment



Multi function lever.

Functions

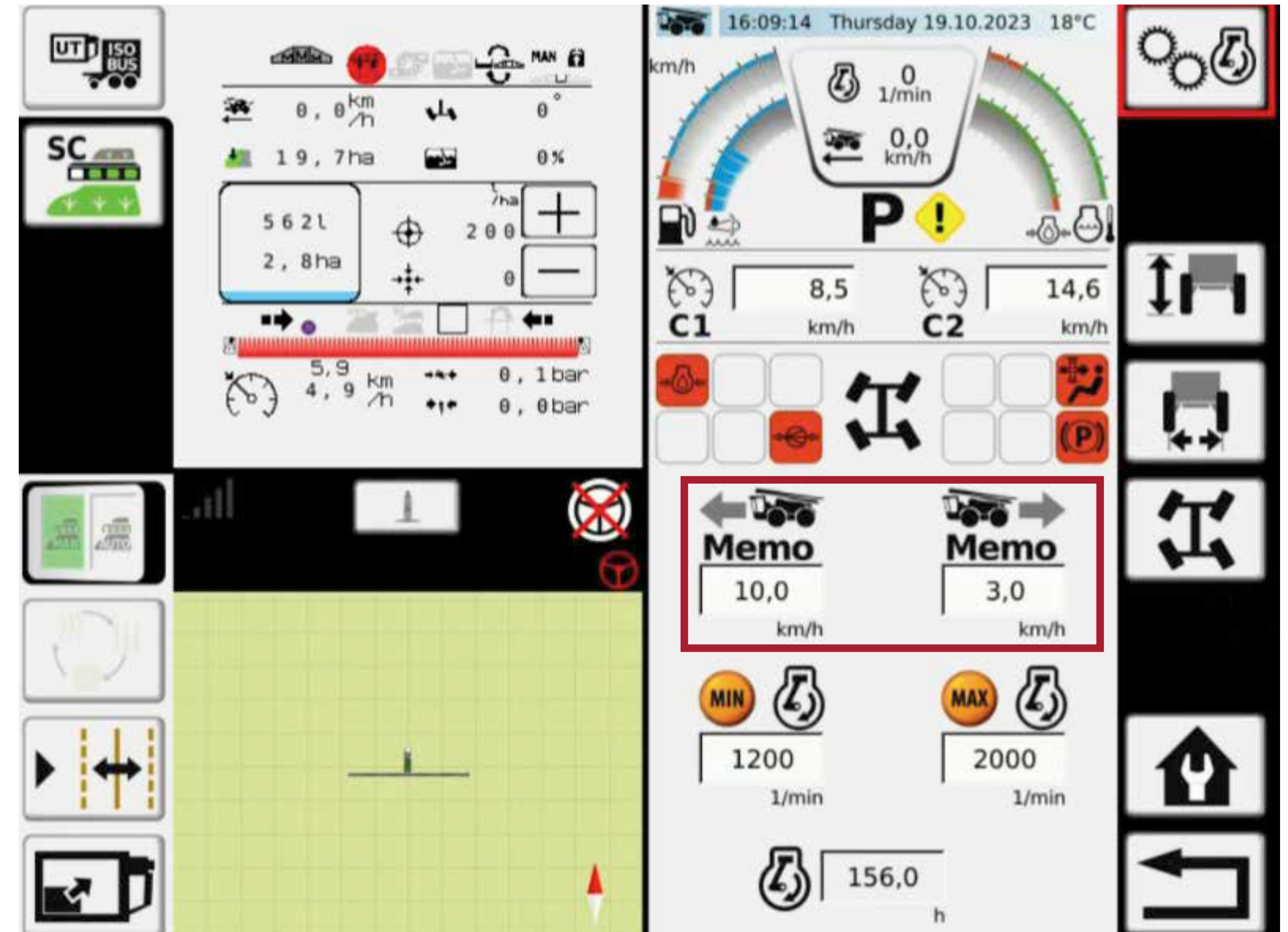
- By pressing the **safety button** the drive system is activated
- The parking brake is automatically deactivated as soon as the lever is moved forwards or backwards
- If the lever is pushed forwards, the machine drives forwards
- If the lever is pulled backwards, the machine drives in reverse
- While travelling (forwards or backwards), the Rogator maintains the speed as long as the speed control lever is in the neutral position



Reversing.

Operation

- The reversing automatically changes the direction of travel when the MFH is moved to the left
- A target speed can be saved for both forwards and reverse travel (0 - 10 km/h) for the reversing



Cruise control.

Operation

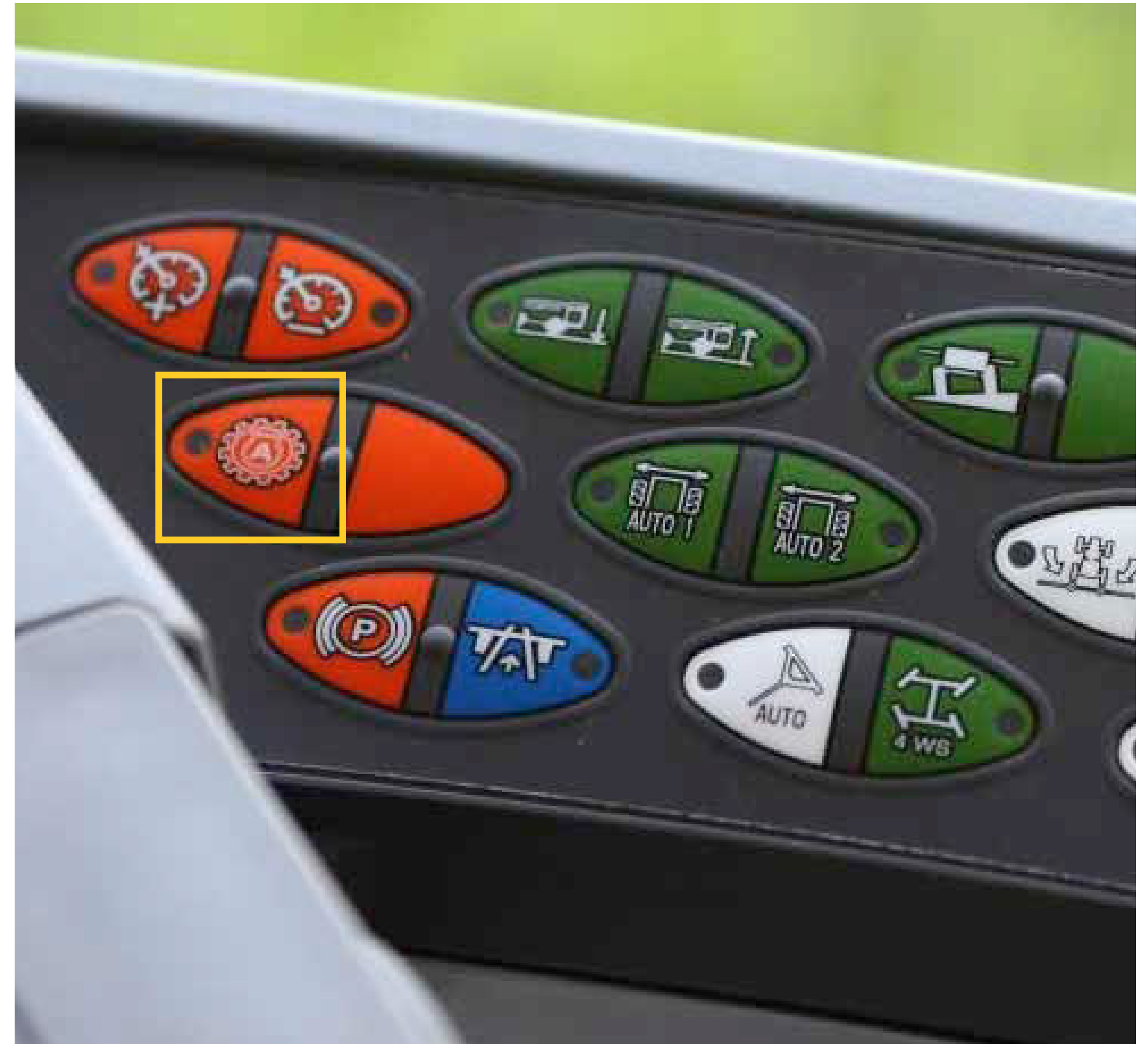
- Four programmable memory locations for cruise control speeds (SV1 + SV2)
 - Two for road travel
 - Two for field operation
- Activation by pressing SV1 or SV2 on the speed control lever
- Press and hold SV1 while travelling at the desired speed to save this speed. The same applies to SV2



Performance management.

Fuel efficiency and ease to use

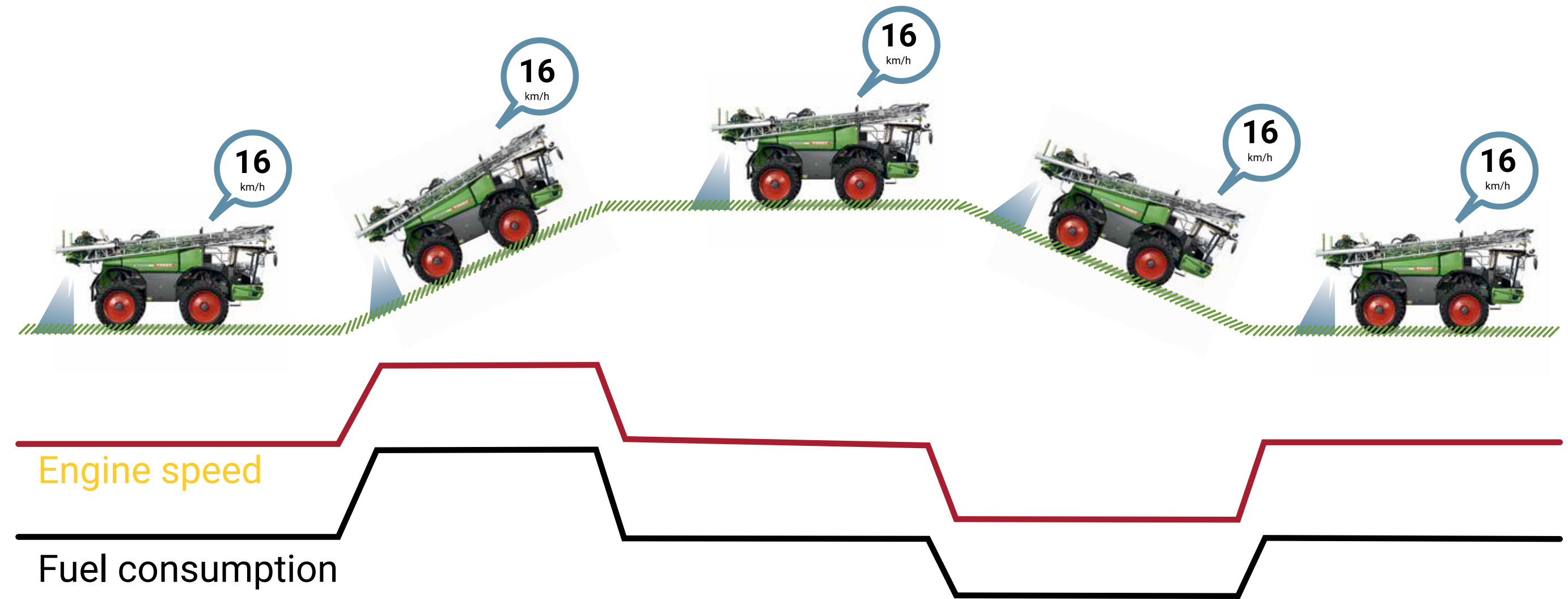
- Manual mode: Hand throttle controls engine speed (LED off)
- Performance management (PM) active: automatic control of the engine speed (LED on)
- The upper and lower value of the speed level in PM mode can be set
- The performance management system regulates the engine speed up or down according to the required power >> This ensures the most efficient fuel consumption and a high level of operating comfort



Automatic speed adjustment.

Always at the right speed

- Maximum ease of use
- Optimum engine speed: maximum fuel efficiency
- Fully-fledged cruise control just like in a car – engine speed is adapted to the speed and load requirement
- Constant speed: maximum output quality



Hydraulics.

Load-dependent controlled pumps

EHS valve blocks

Hydraulic lines

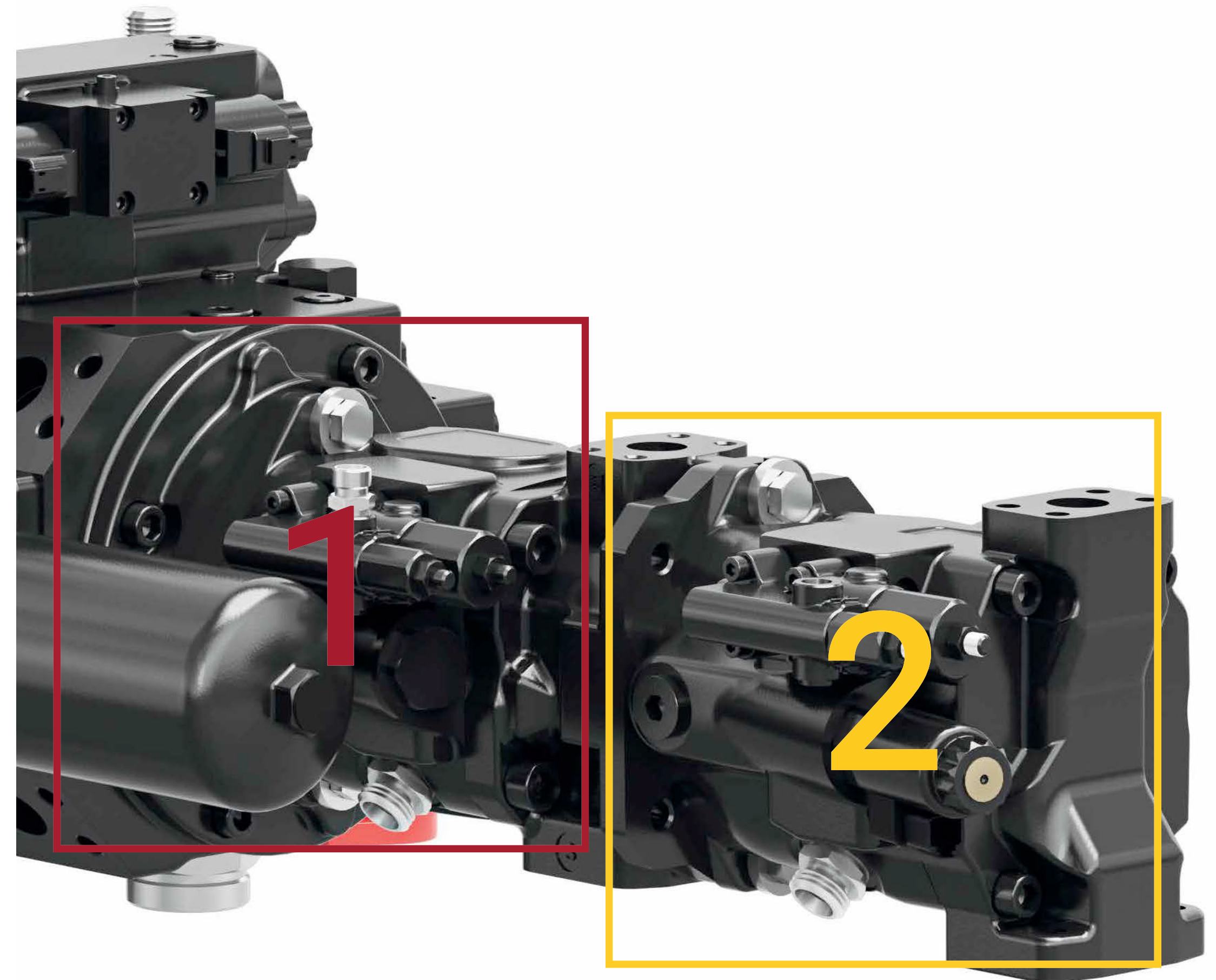
Hydraulic tank



Load-dependent controlled pumps.

Pump functions

- Load-dependent controlled **pump 1**:
 - All hydraulic functions
- Load-dependent controlled **pump 2**:
 - Spray pump drive



EHS valve blocks.

Layout and functions

- At the top of the front and rear axle
 - Adaptive damping of the wheels
 - Stabilisation control
 - Boom lifting gear
 - Steering
 - Wheel suspension
 - Radiator fan
 - Brakes
- Centre frame
 - All hydraulic movements of the boom



Hydraulic lines.

Long lasting features

- Stainless steel connections, prevent rust
- Less heat and vibration transition
- Hoses don't rub together, long service life
- Consistent assembly quality
- Special resistant coating on lines



Hydraulics tank.

Features

- 230 litre hydraulic tank
- Intake return filter
- Alarm sensor for low oil level, no dipstick
- Temperature alarm
- Easy access via platform behind the cab
- Safety plug for draining the oil without any spillage
- Flat platform design
- Ventilation works with an overview and prevents the ingress of impurities via the air



Steering.

Turning radius

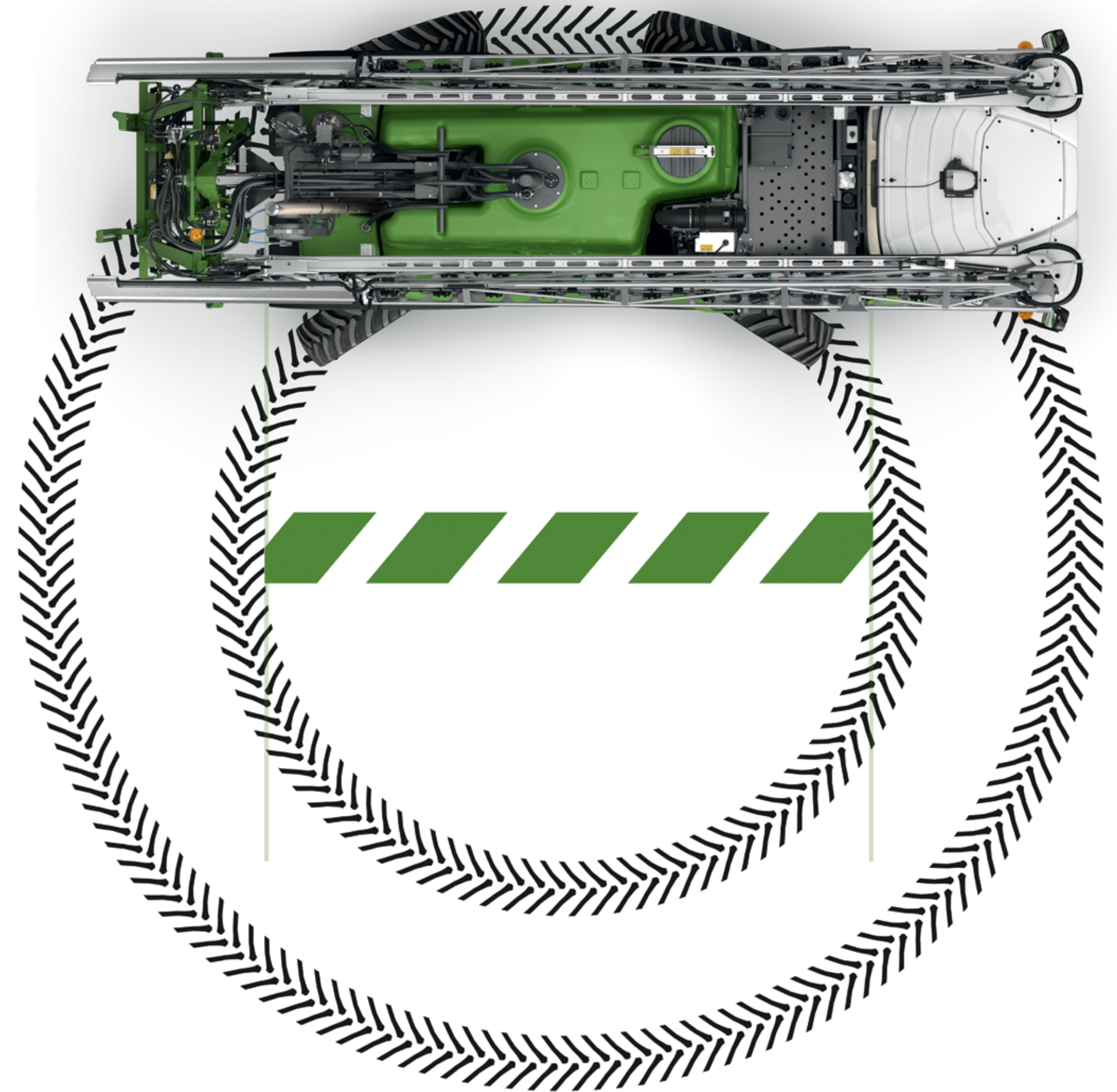
Sensors



Turning radius.

Excellent manoeuvrability

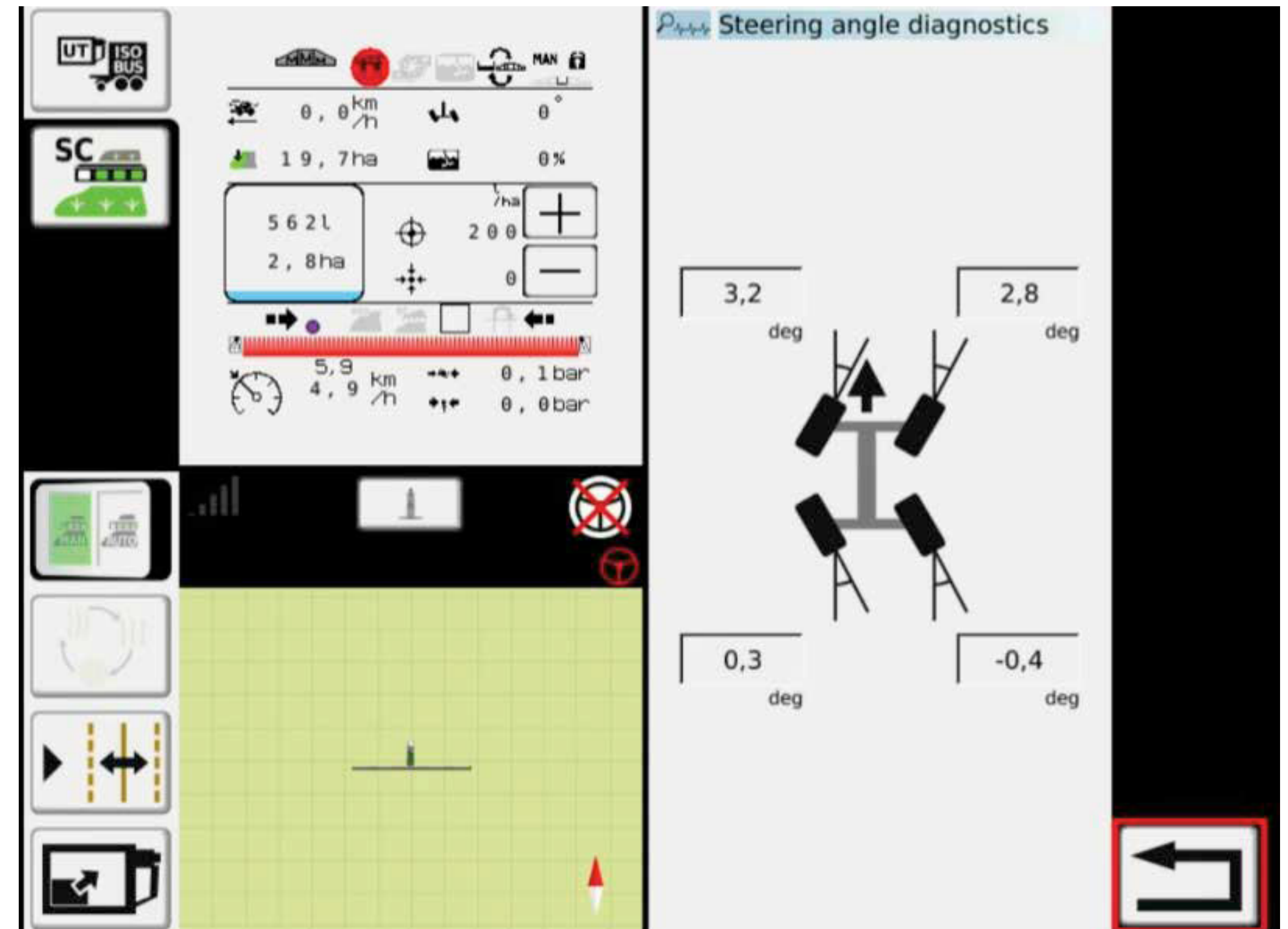
- 35° steering angle with 3° safety angle for rear wheels
- Inner turning radius of 3.14 metres
- No restriction of the steering angle with wide tyres (widths up to 710 available ex works)
- Automatic alignment through full deflection
- Switching between two-wheel and four-wheel steering is possible up to a driving speed of 15 km/h using the button on the armrest.
- Smaller headland required, more net yield
- Less damage to plants due to small turning radius



Sensors.

Rotation angle sensor

- A rotation angle sensor on the wheel assembly determines the wheel angle
- Sensors at the top of all wheel carriers
- The sensors serve the following purposes:
 - Control of the speed of the inner wheels when cornering
 - Automatic tracking of the rear wheels in the lane
 - AutoGuide



Fendt Rogator 600 – Wheel suspension

Wheel suspension.

Single wheel suspension

Height adjustment

Automatic levelling



Independent wheel suspension.

Perfect adjustment

- Dedicated, independent hydraulic wheel suspension, specially developed for field sprayers
- Developed together with ZF and patented for AGCO
- Two working heights with a ground clearance of 75 cm or 120 cm as standard (tyre diameter 2 m)
- Adjustments can be made conveniently from the cab
- Maintenance-free (no lubrication points)
- Track width is not affected by height mode
- ESP for optimum stability when cornering, driving on slopes and braking



Height adjustment.

Flexible height for optimum crop protection.

- Easy adjustment to crop height >> and still with full suspension
- Easily adjustable from the cab at the touch of a button
- Less damage to the crop, higher crop quality and higher yields



Low position



High position



Automatic levelling.

Perfect positioning when refilling

- A rotation angle sensor on each wheel assembly provides an accurate indication of the actual height
- One sensor on each wheel
- Automatic levelling function available for refilling



Axles.

Axle

Track width adjustment

Preferences



Axle.

Low-maintenance features

- Specially treated, chrome-plated axle: corrosion protection
- Self-cleaning
- Maintenance-free: no grease for dust and dirt to stick to



Track width adjustment.

Adjustable in every situation

- Optionally, the track width can be steplessly adjusted between 1.80 and 2.25 metres
- Two saved track widths can be called up on the armrest
- To reduce soil compaction, the track widths of the front and rear axles can be different
- Wide range of tyres, from over two metres in diameter to flotation tyres with a width of 710 mm

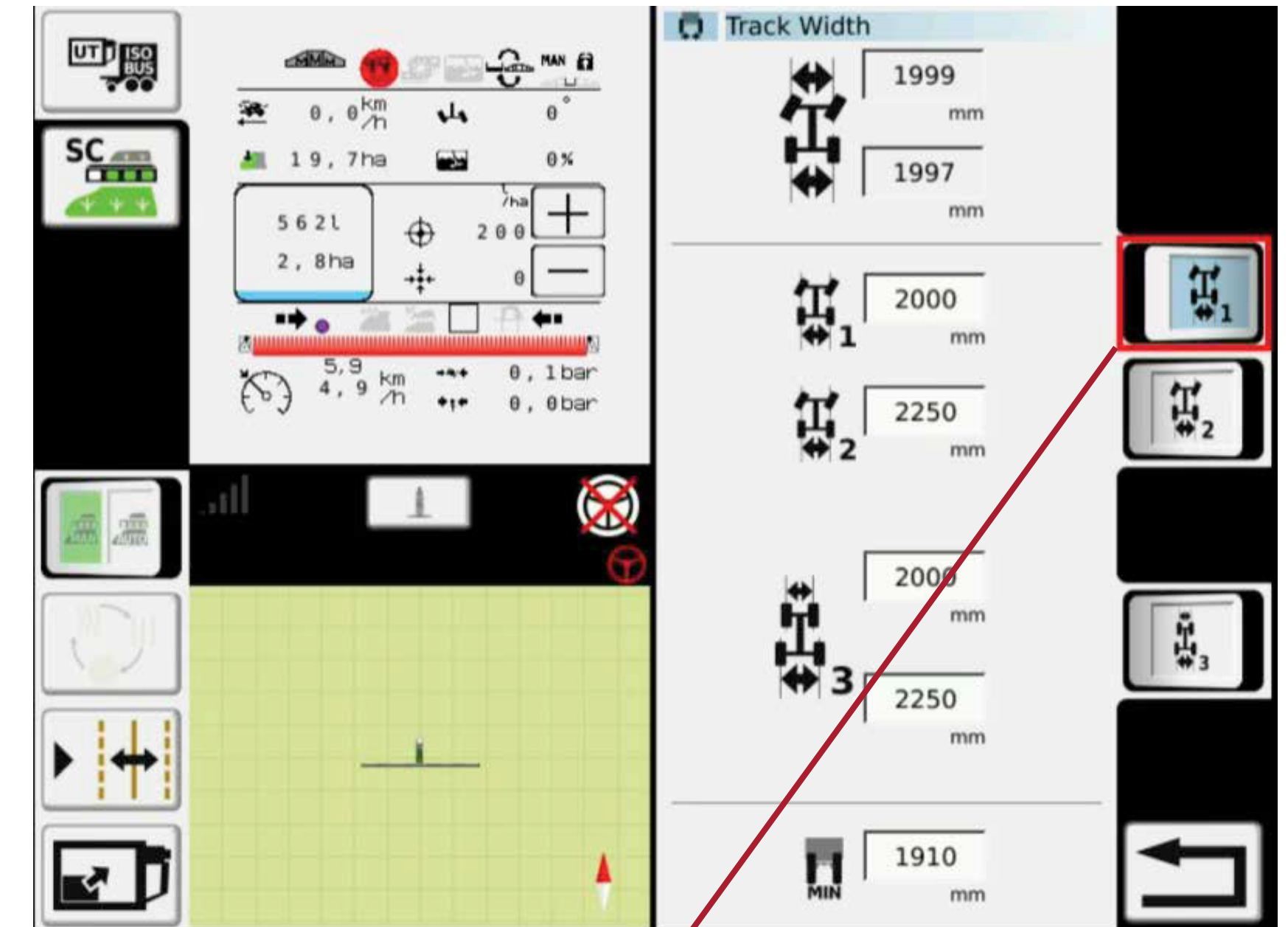
* May vary upwards or downwards depending on the tyre size selected. See tyre range



Settings.

Track width adjustment

- Stepless track width adjustment
- Memory option for two track widths (track width 1, 2 or 3)
- Calling up track width 1 or 2 via armrest switch
- Can be set via the user interface of the Varioterminal 10.4"



Tyres.

Tyre range

Specific track widths

Balloon tyres



Tyre range.

Unladen weights:

- 645: 12,000 kg
- 655: 12,500 kg
- 665: 12,500 kg

- [1] Effective theoretical ground clearance
- [2] Minimum pressure for a fully loaded machine (with a spray agent and a density of 1 kg/l)
- [3] Max. permissible total weight for the tyres, in the EU max. 18 t road approval for all models

* Local road clearance (apart from the recommended tyre pressure) determines whether the machine may be driven at 40 km/h.

Tyre size	Brand	Model	Load index	Actual tyre width (mm)	Total diameter (mm)	Rim size	Radius under load (mm)	Max. distance (cm) [1]	Hydr. track width (m)	Max. load (kg)	With tyre pressure fully loaded at 40 km/h [2]	Max. total load (kg)[3]
										40 km/h	665 – 6000	
320/105R46	Alliance	IF354	166D	345	1840	W10	857	110	1.83-2.27	5300-4.8	4.8	21200
380/90R54	Alliance	350	171D	388	2055	W13A	960	120	1.84-2.28	6730-4.8	3.4	26920
420/95R50	Alliance	VF354+	177D	425	2052	W13	932	117	1.87-2.31	7300-3.6	2	29200
480/80R50	Alliance	VF354+	171D	479	2050	DW16	936	118	1.92-2.36	6150-2.4	1.6	24600
480/80R50	Alliance	IF363	166D	480	2038	DW17	940	118	1.90-2.34	5300-2.4	2.4	21200
520/85R46	Alliance	VF354+	170D	530	2052	TW16	916	115	1.99-2.43	6000-1.6	1.4	24000
620/70R42	Michelin	Omnibib	160D	639	1953	DW20B(A)	863	110	2.09-2.53	4930-1.6	1.6	19720
620/75R34	Michelin	Megaxbib	170A8	590	1814	DW20B(A)	821	105	2.16-2.60	6000-3.2	2.8	20120
710/75R34	Michelin	Megaxbib	178A8	690	1900	DW23B	848	108	2.18-2.62	7500-3.2	1.9	25200

Specific track widths.

Fixed track widths ex works:

- 1.80
- 1.83 (72 inch)
- 2.00
- 2.03 (80 inch)
- 2.25

- The table below contains the possible widths and order numbers for the various tyres
- Further information on request

Tyre size	Brand	Model	Load index	Actual tyre width (mm)	Total diameter (mm)	Fixed track width*					Tyre weight incl. rim in kg (total for machine)
						1.80 m	1.83 m (72") only for UK	2.00 m	2.03 m (80") only for UK	2.25 m	
320/105R46	Alliance	IF354	166D	345	1840	1800	1830	2000	2030	2250	336.8 (1347)
380/90R54	Alliance	350	171D	388	2055	1800	1830	2000	2030	2250	423 (1692)
420/95R50	Alliance	VF354+	177D	425	2052	1830	1860	2030	2060	2280	326.8 (1307)
480/80R50	Alliance	VF354+	171D	479	2050	1860	1890	2000	2030	2250	423.5 (1694)
480/80R50	Alliance	IF363	166D	480	2038	1860	1890	2000	2030	2250	402.8 (1611)
520/85R46	Alliance	VF354+	170D	530	2052	1920	1950	2000	2090	2250	421.3 (1685)
620/70R42	Michelin	Omnibib	160D	639	1953	2060	2090	2140	2170	2390	421.5 (1686)
620/75R34	Michelin	Megaxbib	170A8	590	1814	2140	2170	2220	2250	2470	374.5 (1498)
710/75R34	Michelin	Megaxbib	178A8	690	1900	2170	2200	2250	2280	2500	465.5 (1862)

* Please note the deviations from the nominal track width with fixed track width for the marked combinations

Balloon tyres.

- Flotation tyres are available
- Depending on the tyre size selected, wide mudguards may be mandatory
- With the wide mudguards, the machine has an outside width of just under three metres (2.99 m)
- The mudguard width can be adapted to your own requirements at any time
- In the version with a wide mudguard, the machine is equipped with an additional lighting kit and a rotating beacon on the centre frame



Cab.

Cab special features

Benefits

Optional additional equipment for the cab

Electrics in the cab



Cab features.

Enhanced cab equipment

- AGCO Vision cab with 4 m³ volume
- Optimum view: 6.4 m² glass surface
- Curved windows and narrow cab pillars ensure the best view
- Familiar additional equipment from AGCO harvesters and tractors
- Extensive standard equipment:
 - Automatic climate control
 - Cat 4 certification
 - Integrated cool/heat box under the front passenger seat
 - Steering wheel with axial and two-stage tilt adjustment
 - Air-sprung and heated seat
 - Sun visors front and rear
 - Electrically adjustable and heated mirrors
 - Footrests
 - Separate symbols for the spraying system on the operating elements
 - Instructor seat
 - Integrated mobile phone holder
 - USB port (e.g., for charging a mobile phone)
 - 12V socket
 - Cup holder and storage compartments



Benefits.

Top-class cab

- Most spacious field sprayer cab on the market
- Healthy cab environment, free from chemicals, dust and vapours
- Numerous storage compartments in and outside the cab
- Safe and easy access to the cab
- Maximum legroom
- Intuitive control thanks to ergonomic layout and precise symbols for spray control
- Quiet: < 70 dB(A)
- Primary spraying and driving functions on the joystick
- Secondary main controls attached to the armrest, e.g., for track width adjustment, folding out the boom, height adjustment of the chassis.
- All important spraying parameters at a glance
- Highest level of comfort in this class



Optional additional equipment for the cab

Other options

- Radio incl. bluetooth hands-free system with gooseneck microphone
- Depending on the country, a licence plate holder (front and rear) is also available
- Second terminal
- Hydraulic auxiliary valve



Electrics in the cab.

- 12-volt on-board electrics
- 200 A Generator
- Complete CAN-BUS system configuration
- Diagnostics via EDT software
- Isolating switch in the cab
- 12 V sockets (cigarette lighter and USB port)



Controls in the cab.

Varioterminal 10.4"

Second 10.4" Varioterminal

Multi function lever

Armrest

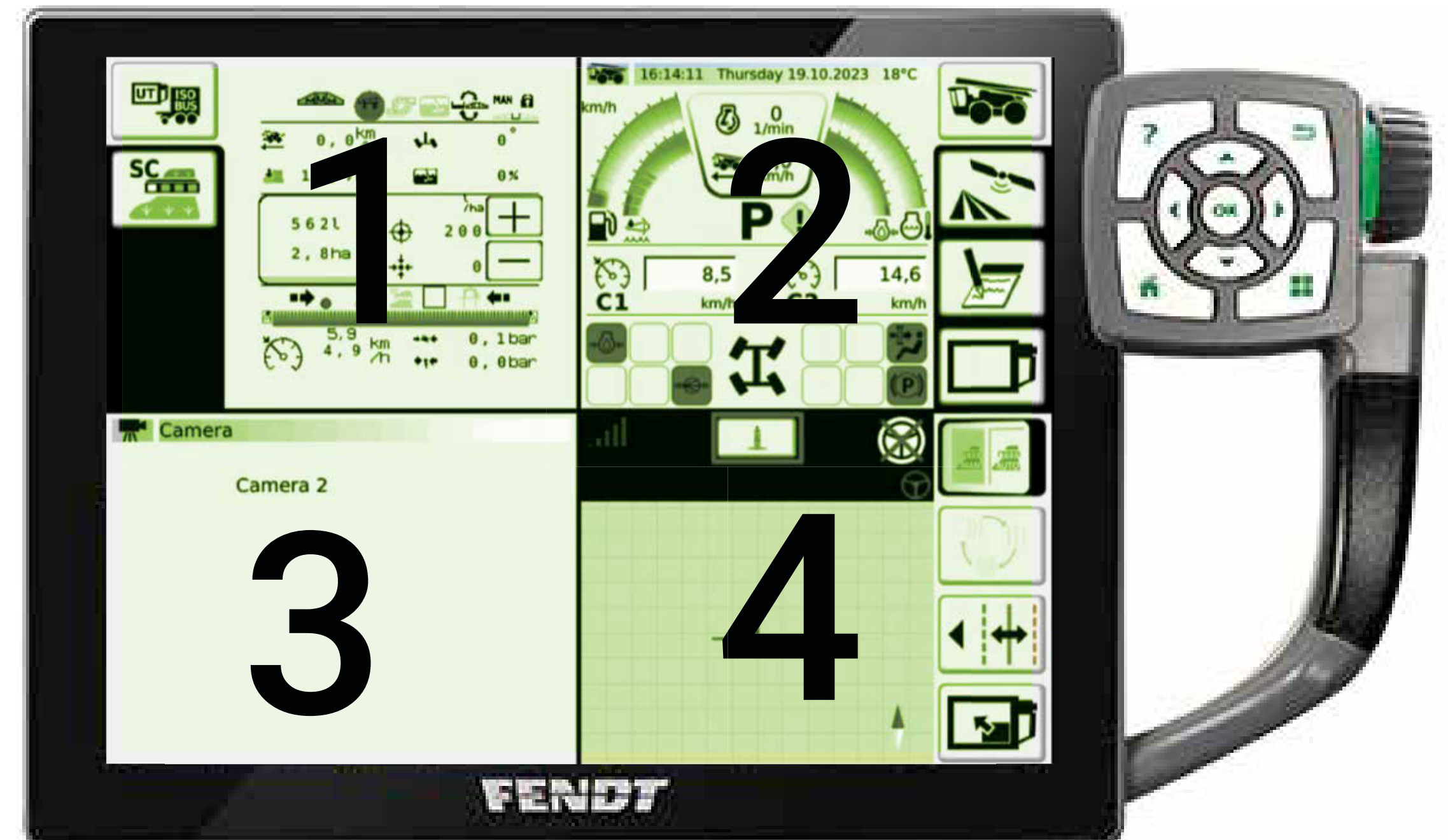
Buttons on the armrest

Boom height



Varioterminal 10.4".

- One screen for all functions, Rogator Management Center (RMC)
- Excellent all-round visibility in all lighting conditions, day/night setting available
- User-definable layout with four quadrants
 - Quadrant 1: AgControl or camera
 - Quadrant 2: Chassis (always chassis, no change possible)
 - Quadrant 3: Spray map or camera
 - Quadrant 4: Spray map or camera



Second 10.4" Varioterminal

Everything at a glance

- As an optional extra, a second screen can be installed to display the settings for AgControl and the boom height management
- This increases the visibility of the spray equipment parameters and the spray map, chassis information and camera remain directly in view
- A hydraulic auxiliary valve including control unit is also available as an option. This can be used to control an implement such as a slug pellet spreader. This also provides the option of controlling the rear axle using a separate joystick.



Multi function lever.

- 1 headland mode
- 2 Inclination centre frame
- 3 Boom up/down
- 4 Geometry of the right-hand boom up/down
- 5 Geometry of the left-hand boom up/down
- 6 Main switch for sprayers
- 7 Cruise control 1/2
- 8 Activate VarioGuide



Armrest.



Hand throttle

Folding out/folding in of the left-hand boom tip

Folding out/folding in of the main boom

Folding out/folding in of the right-hand boom tip

Storage (mobile phone...)

Buttons on the armrest.

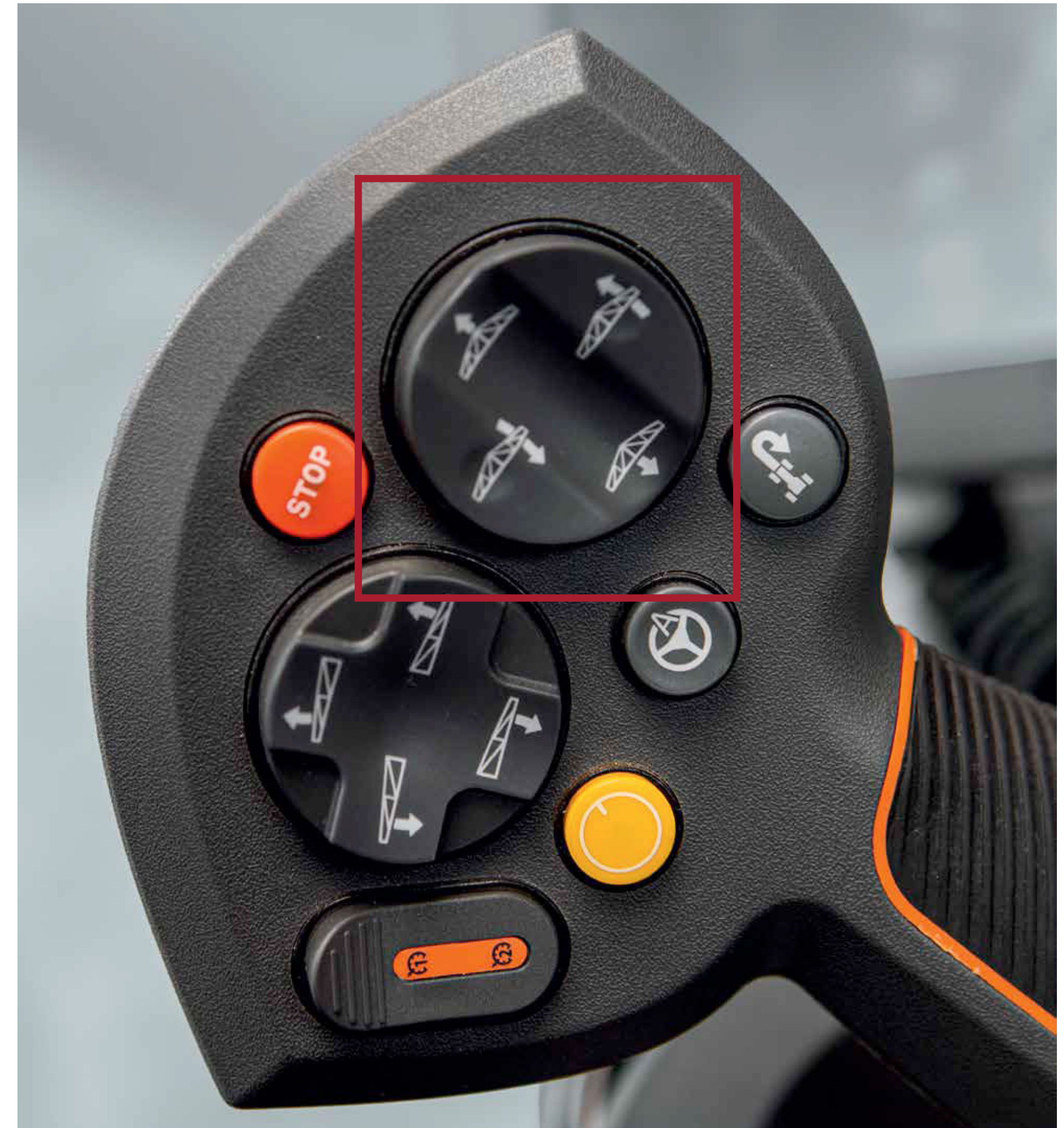
- 1 Boom folding
- 2 Levelling the chassis for refilling
- 3 Ground clearance high/low
- 4 Fine-tuning cruise control
- 5 Performance management
- 6 Memory for track width 1/2
- 7 Parking brake
- 8 Field/road mode
- 9 Activate VarioGuide
- 10 Two/four-wheel steering
- 11 Nozzles at the beam tips left/right
- 12 Balance lock
- 13 Stirring
- 14 Spray pump
- 15 Recirculation



Boom height.

Setting options

- Adjusting the boom height using the boom up/down buttons
- Two-stage buttons
 - First stage
 - Lower boom = lower manually
 - Raise boom = raise manually/activate headland mode (if boom height management is active)
 - Second stage
 - Raise boom = deactivate boom height management
- If OptiSonic is installed, the following parameters can be set for headland management:
 - It is possible to set whether and at what angle the stabilisers should be angled
 - It is possible to set whether and to what height the boom should be raised



Spray rate and subsection control.

Spray control

Control of the spray volume

Single diffuser switch

Sections

Virtual switchbox

Auto subsection control

Control of the spray volume

Overlap

Drift of plant protection products.

Application of plant protection products

OptiNozzle

SpeedControl

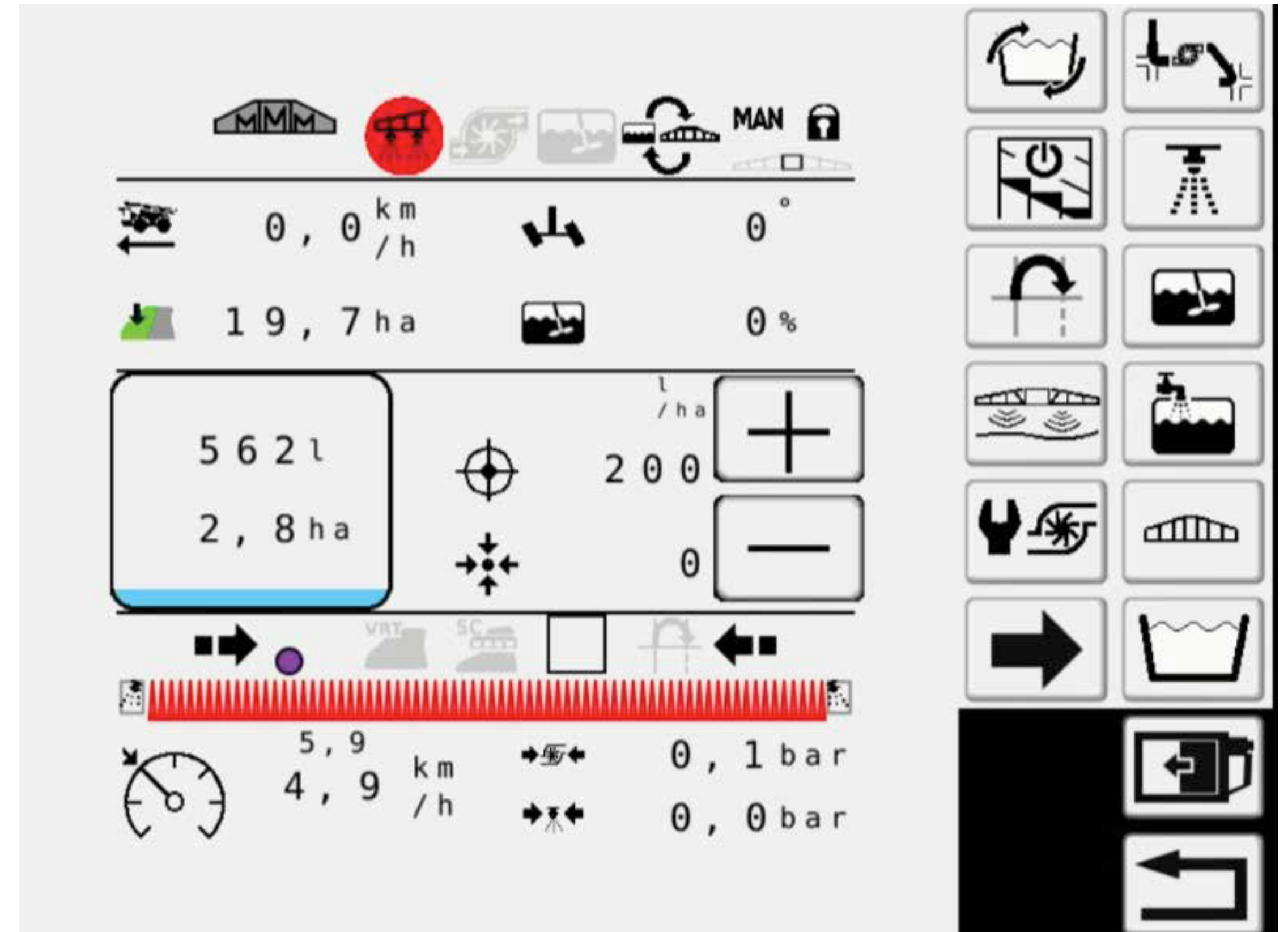
Headland management



Spray control.

Display on the terminal

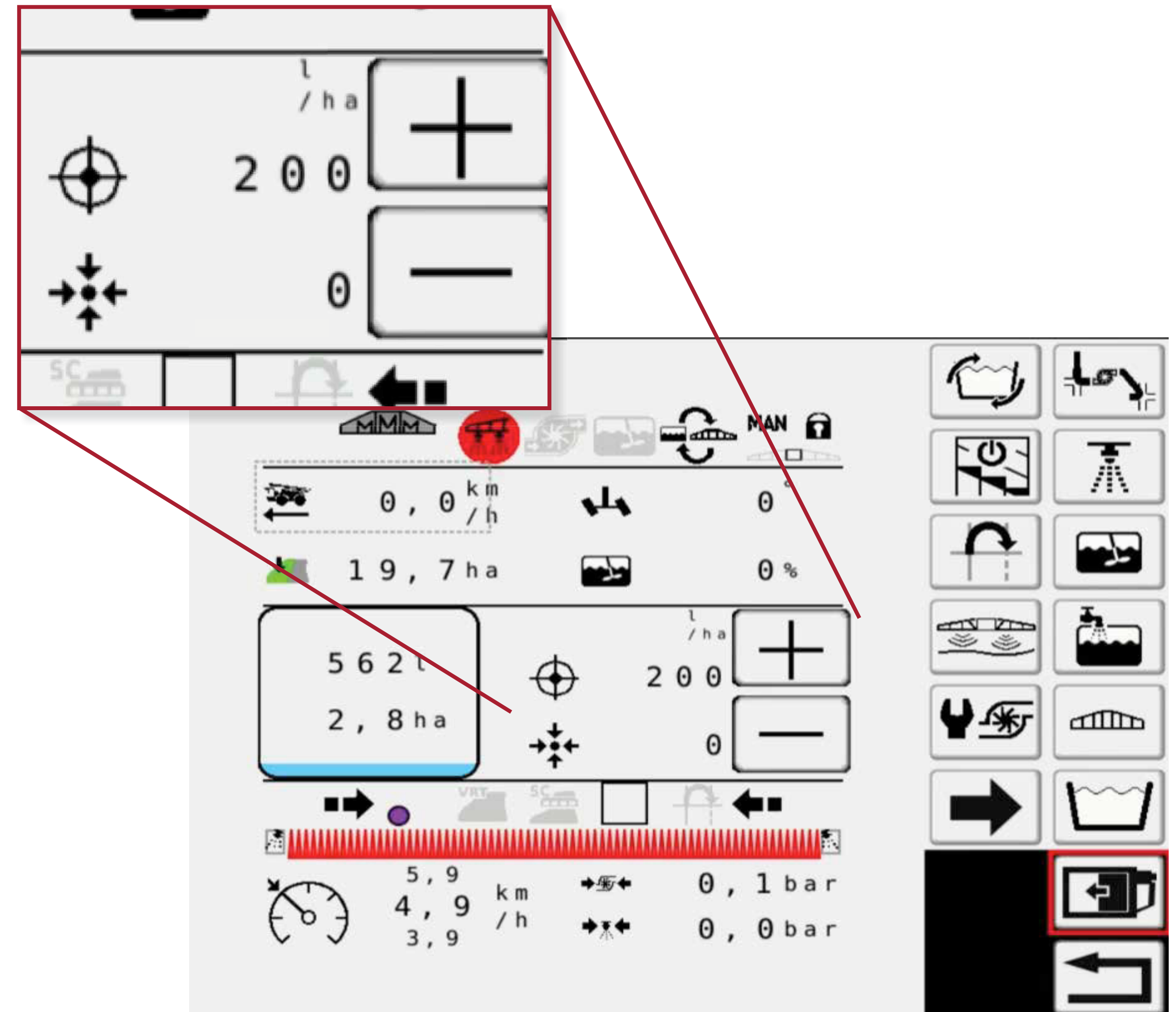
- Full overview on one screen
- Intuitive international symbols
- Units are shown in writing (e.g., bar or psi)



Control of the spray volume.

Options via the terminal

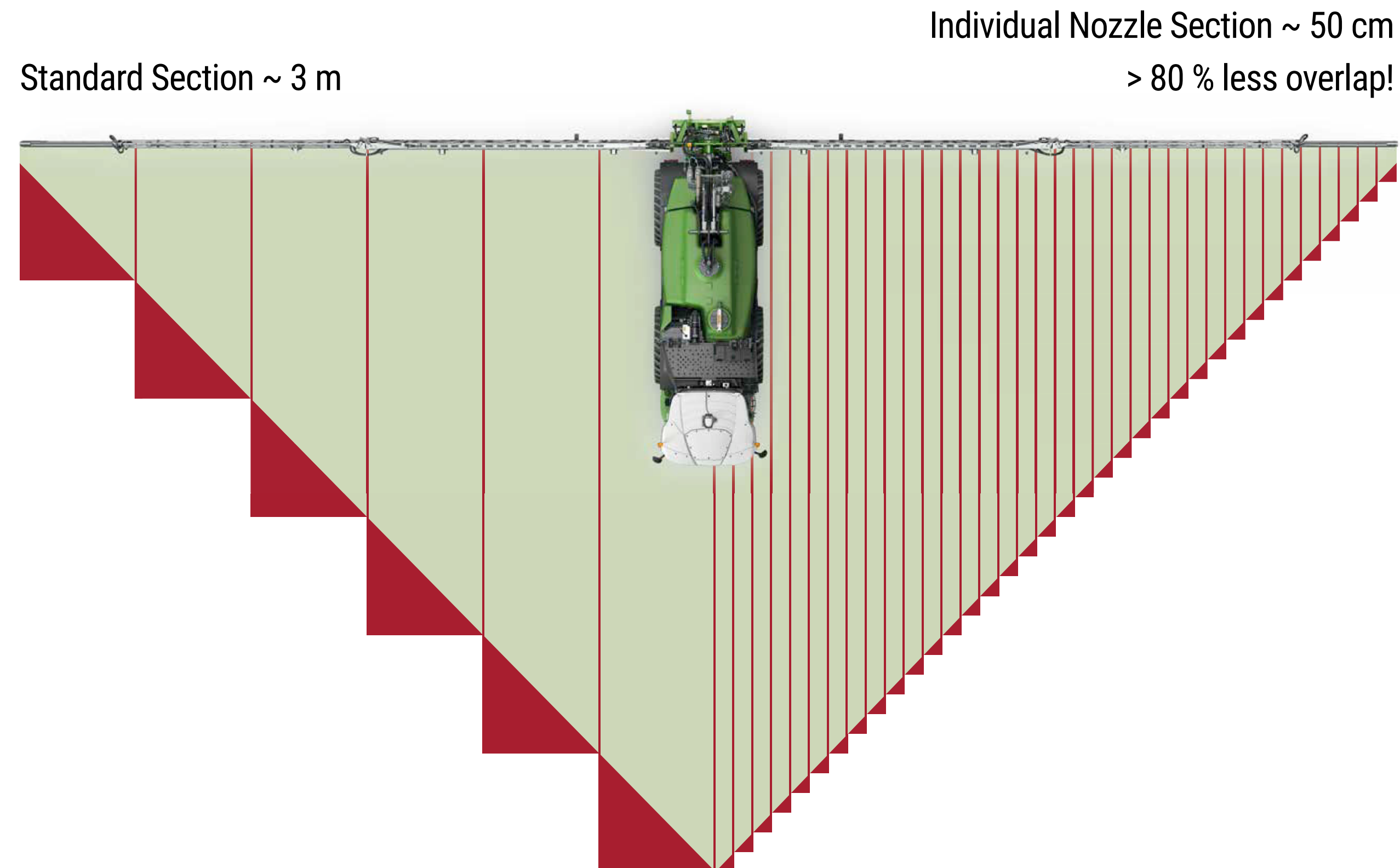
- Pump hardware and pipe lines
- Software for controlling the spray volume
- Extremely short reaction times when controlling the spray volume
- Particularly advantageous when working with VRC maps and thus changing application rates
- Electrical individual control of the nozzles: up to 78 sections



Single nozzle control.

Single nozzle electro-pneumatic shut-off

- 50 cm Nozzle spacing
- Overlap reduced by more than 80% in comparison to 3 m sections



SingleLine nozzle body



DualLine nozzle body



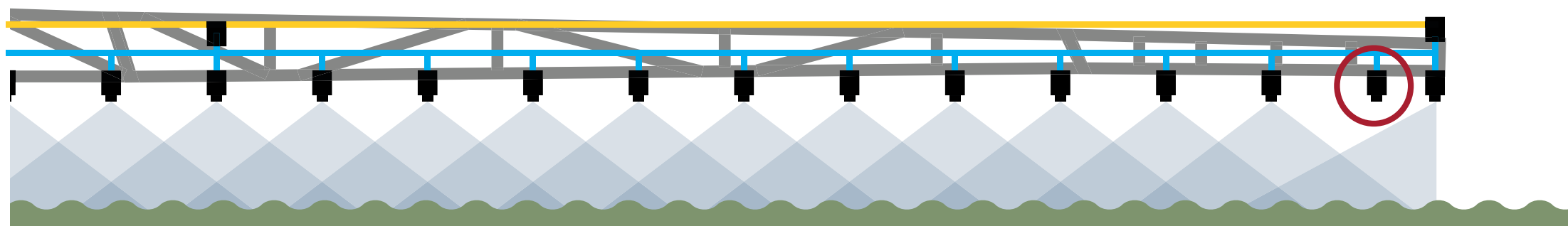
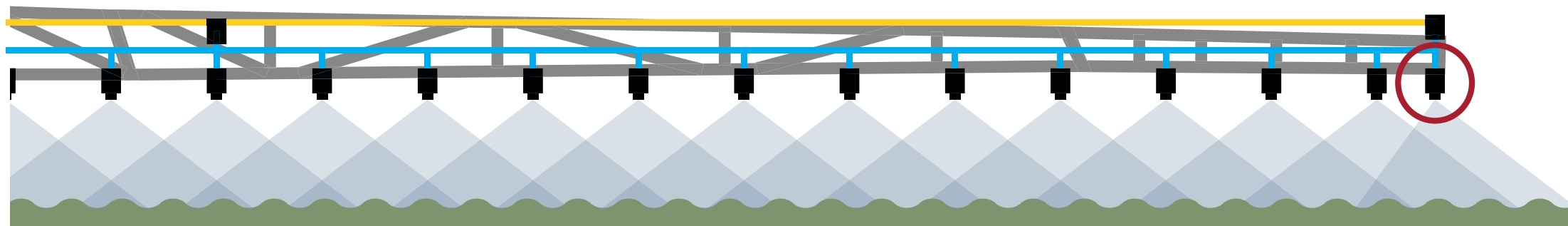
QuadLine nozzle body



Sections.

Automatic and precise shifting

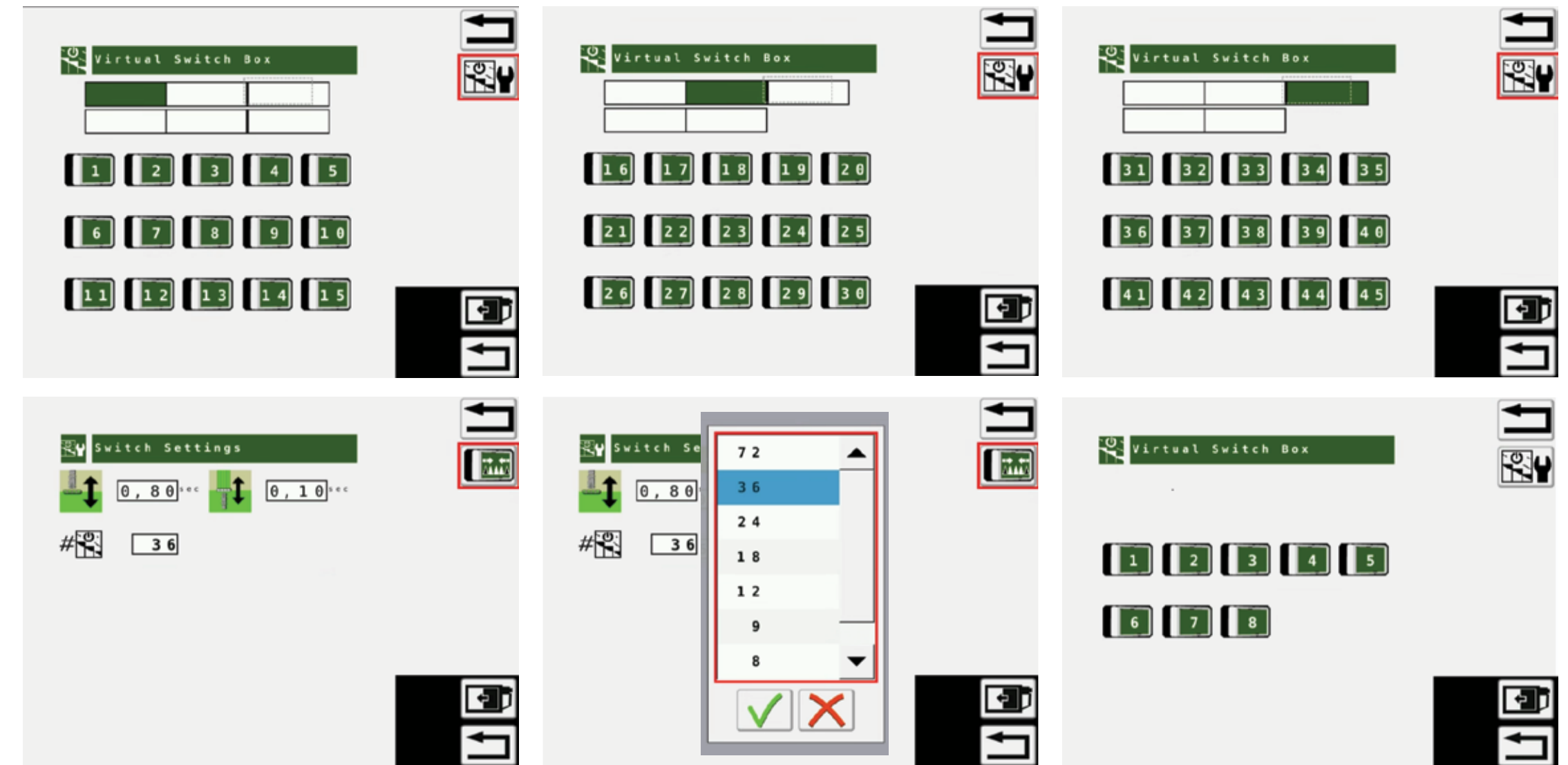
- Automatic control of the boom sections (50 cm sections, 50 cm nozzle spacing)
- Max. 78 boom sections for a 39 metre boom plus one nozzle at each boom tip
- No dripping nozzles, as the electro-pneumatically controlled nozzle bodies are closed directly
- Single nozzle unit control for high-pressure recirculation



Virtual switchbox.

Manual operation of the partial shutdown

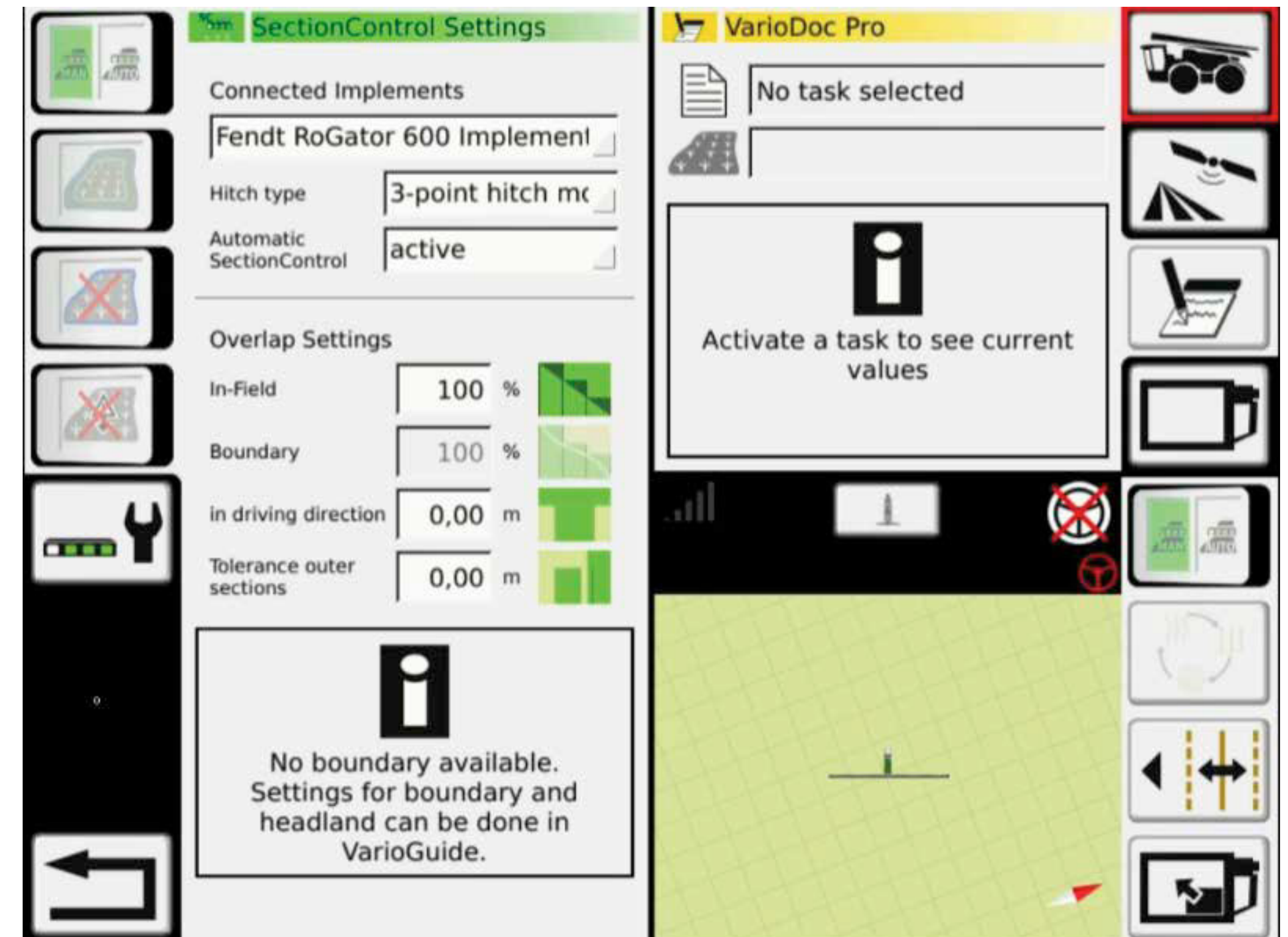
- With manual partial shutdown, individual sections can be connected in groups in order to control them specifically
- The total number of groups can be set via the Varioterminal 10.4"
- With GPS-supported control, the individual sections are controlled
- The groups are activated with manual partial switch-off



Auto SectionControl.

Requirements and setting options

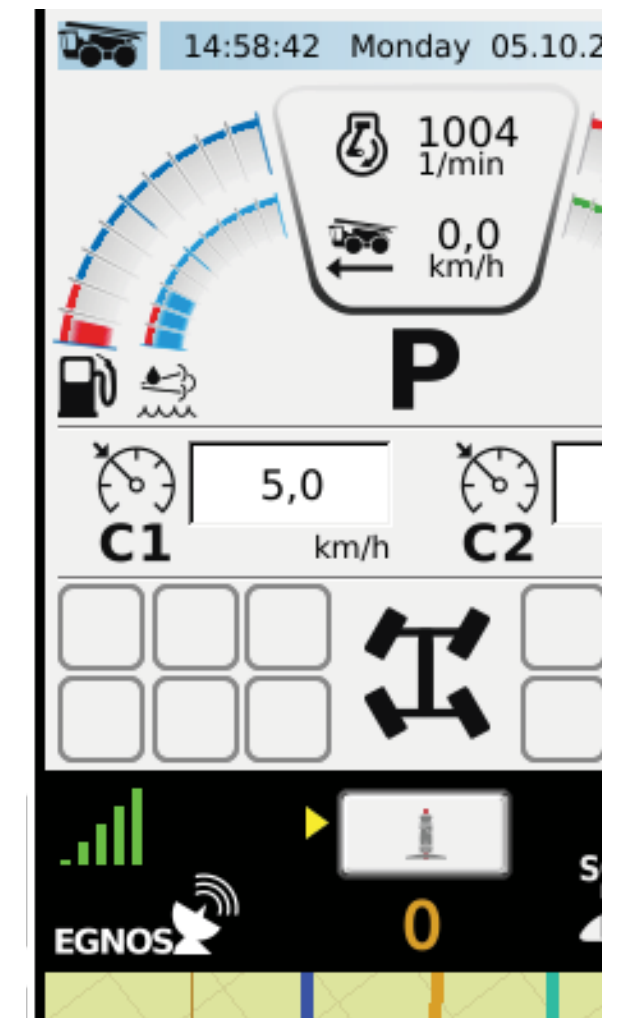
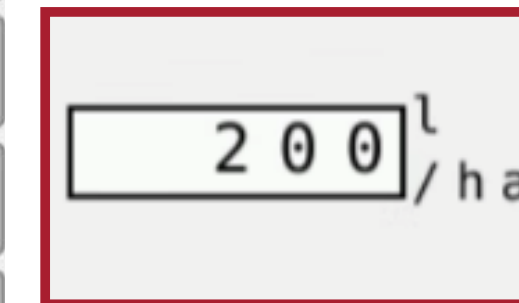
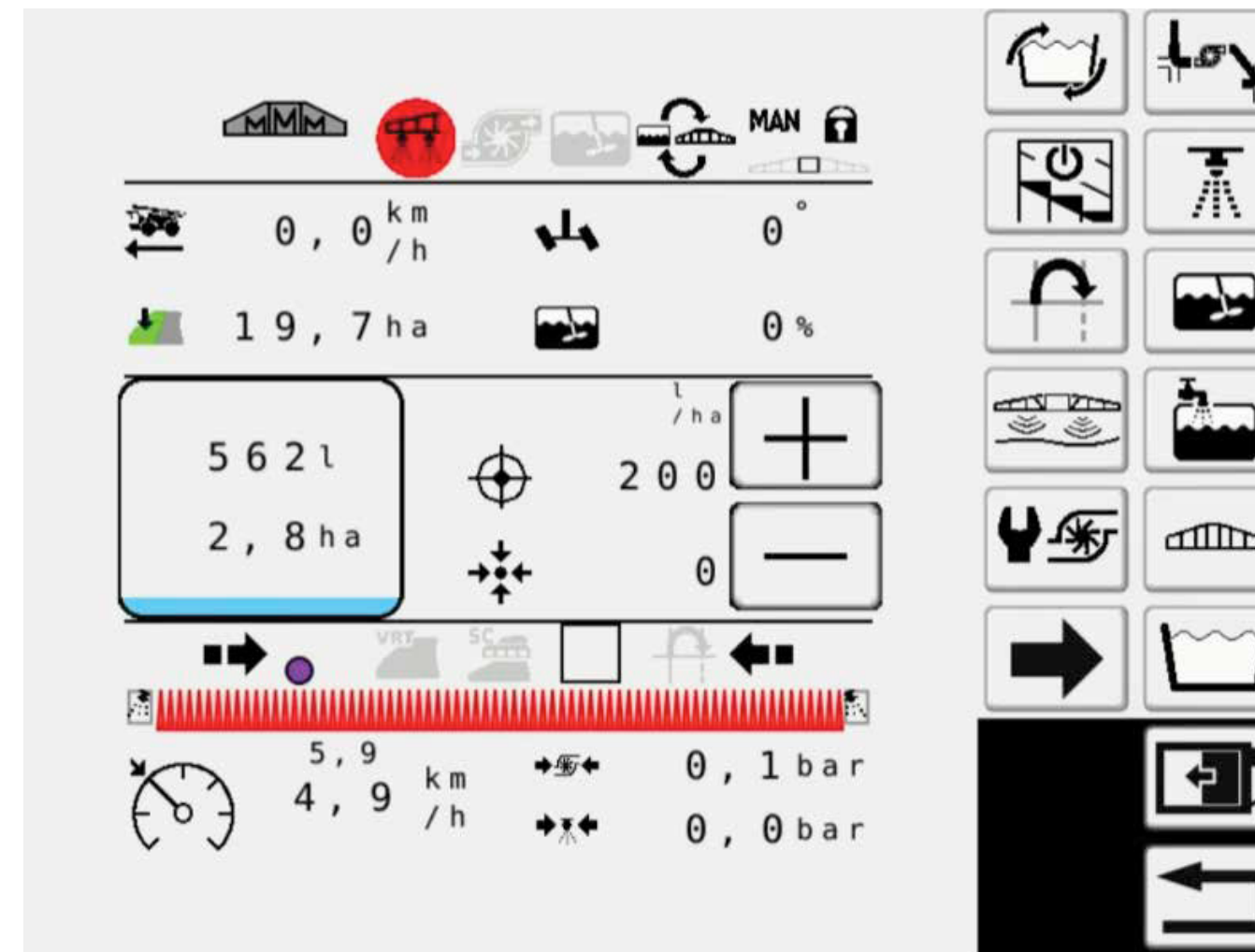
- Required hardware: GPS receiver and GPS signal
- Licence required for section control
- You can set the system to five different overlap levels (from 0% to 100%), depending on the spray agent and crop.
- Overlap inside the field and at the field boundaries can be set differently by the driver if required.
- Field boundaries = no risk of the system starting to spray if the boom protrudes beyond the field.
- Option to spray the headland first before the main field
- Sections of one metre are standard when a section switching licence is purchased.



Control of the spray volume.

Two control modes

- System screen for setting the desired spray quantity
 - The driver can set the desired spray volume on the system screen.
 - The driver can increase the desired spray volume as required.
- Task Controller sets the desired spray volume
 - The spraying system obtains the spraying quantity required by the Task Controller via the ISOBUS. The spray volume can be constant (fixed spray volume) or variable (map-based or sensor-based)
 - The driver can increase the rate at any time to override the specified spray volume
- The control mode is changed automatically:
 - If the Task Controller provides a spray rate in the ISOBUS, the control mode is switched to the "Task Controller".
 - If there is no spray quantity in the ISOBUS (CAN network), the control mode is switched to the system screen.



Overlap.

Impact of overlapping product application:

- You use twice the volume of spray agent
 - You waste spray agent, which increases product costs
- Crop is treated twice
 - Yield losses
- Environmental impact
- Overlapping in example field:
 - 1.33 % overlap for a field of 12 ha (boom 30 m with 10 boom sections)



- Typical percentage of overlap in fields in Western Europe for a 30 metre boom with ten boom sections: **2 %**

Drift of plant protection products.

Standard to avoid drift: drift-reducing nozzles

Ensuring 50%, 75% or 90% drift reduction while maintaining a defined pressure range (by reducing drift, the droplets become larger).

The larger the droplets, the smaller the risk of drift

The smaller the droplets, the greater the coverage. This means many farmers use a small droplet spectrum with a high drift.

Objective: even application while reducing drift

Requires the pressure and travel speed to be adjusted

Goal: Drift reduction with changed speed

Requires the option to change nozzles



Wind force 2 (11 km/h)



Distance 50 cm

Drop height

µm = micrometres

Drift

500 µm



0,7 m



200 µm



2 m



100 µm



6 m



50 µm



20 m



Drift reduction

Nozzle type

Speed

Pressure range

Application rate

90 %

ID-120-025

10 km/h

3 bar

119 l/ha

75 %

ID-120-025

11.6 km/h

4 bar

119 l/ha

50 %

ID-120-025

15.3 km/h

7 bar

119 l/ha

0 %

ID-120-025

16.3 km/h

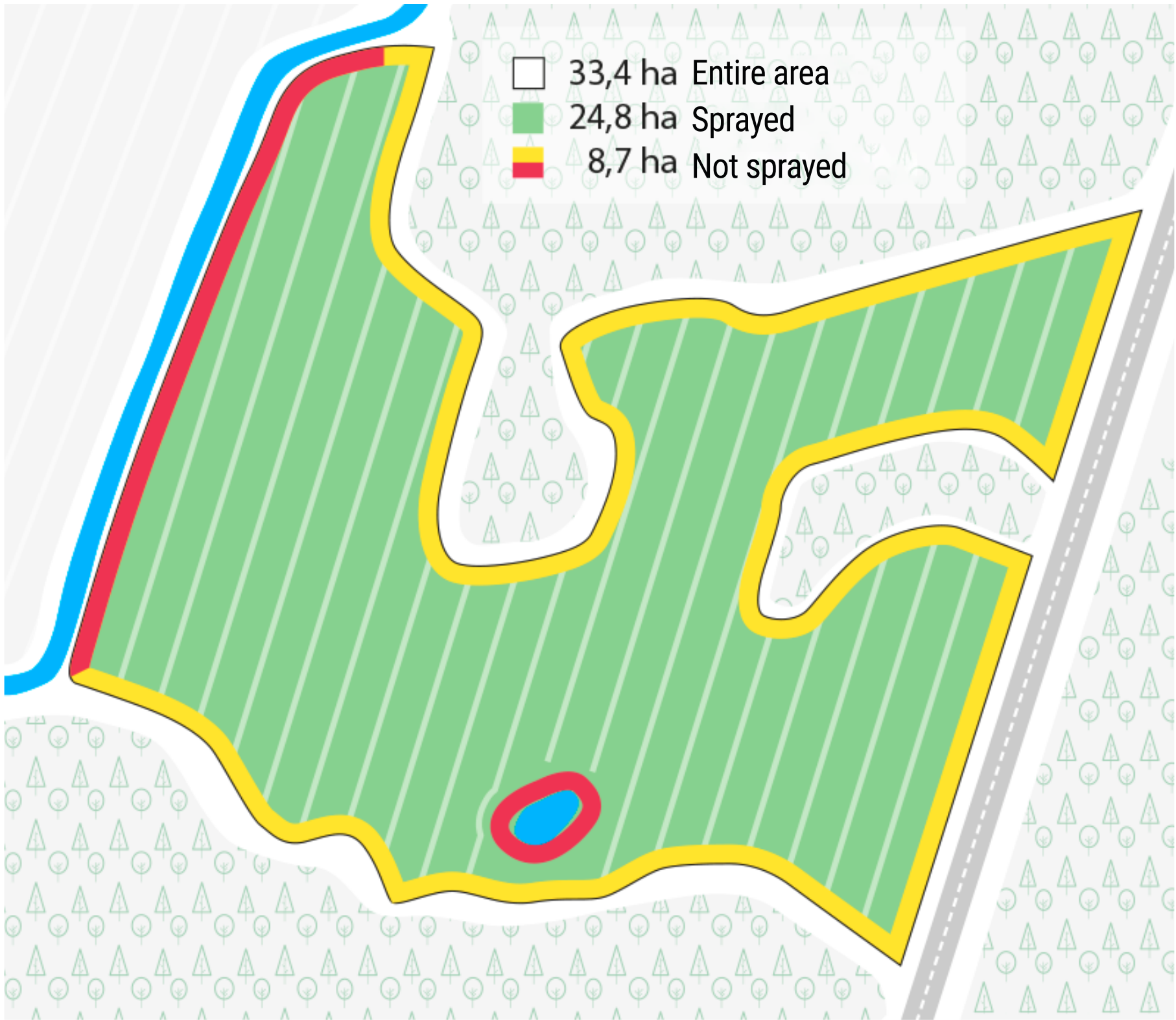
8 bar

119 l/ha

Application of plant protection products.

Challenges in the use of plant protection products.

- All parameters need monitoring, for drift reduction and correct application rate:
 - Target drift reduction
 - Speed
 - Nozzle selection
 - Droplet spectrum
- Compliance with distance requirements
- Frequently changing parameters:
 - Resources rate with VRC
 - Changing speeds



Distance from water					DISTANCE FROM NON-TARGET LAND			
Drift reduction	0%	50%	75%	90%	0%	50%	75%	90%
Distance	20 m	10 m	5 m	5 m	20 m	20 m	0 m	0 m

Application of plant protection products.

Challenge for users – current situation.

High drift reduction

- + Environmentally friendly due to greatly reduced input on non-target areas
- + Compliance with the application conditions and, with it, wider approval for certain methods
- Increased expenditure
- Less coverage
- Higher risk of crop diseases
- Less yield

←→
The user can only choose one range

Small droplet size

- + Better coverage
- + Less expenditure
- + More yield
- + Less risk of crop disease outbreaks
- + Higher pressure range for the application
- + Higher capacity
- Higher risk of drift

OptiNozzle.

Optimum drift reduction

- Perfect nozzle or nozzle combination according to the legal requirements for drift reduction
- Optimum speed and thus pressure for the nozzle or nozzle combination currently in use in order to maintain a previously defined target value for drift reduction with an optimum droplet spectrum
- Automatic selection of the nozzle/nozzle combination for different application parameters, including:
 - Application quantity
 - Speed
 - Drift reduction

Example



Drift reduction
90 %



Working pressure
3 bar

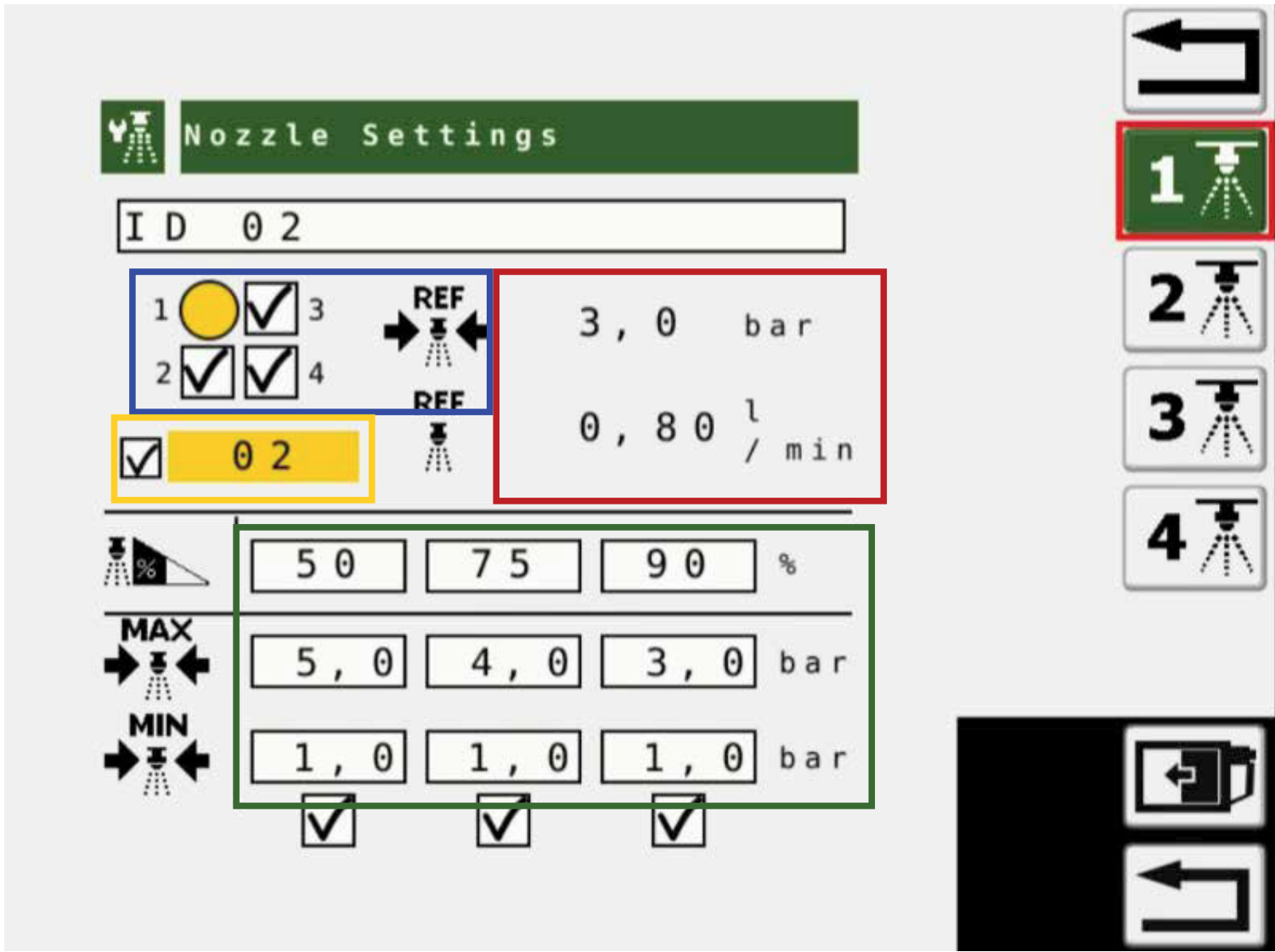
Nozzle size	Ground speed		
	6.3 km/h	10 km/h	16.3 km/h
025	190 l/ha		
04		190 l/ha	
025 + 04			190 l/ha
Time savings	0 %	37 %	61 %

OptiNozzle.

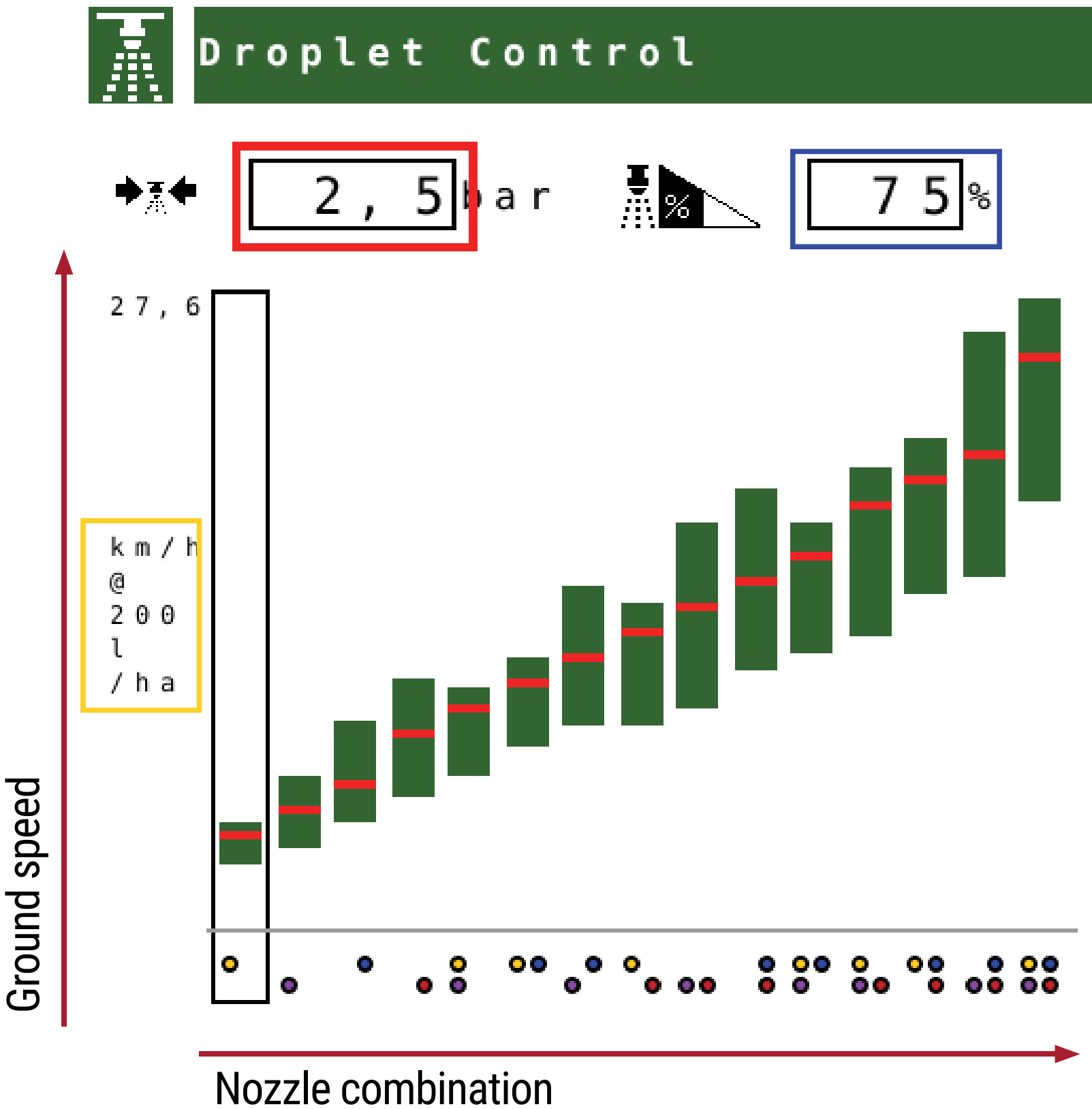
Adjusting the parameters

One-time programming of the system for the parameters:

- Position of the nozzle on the nozzle carrier (blue)
- Nozzle size (yellow)
- Flow rate at reference pressure (red)
- Pressure range per drift reduction class (green)



Display on the terminal



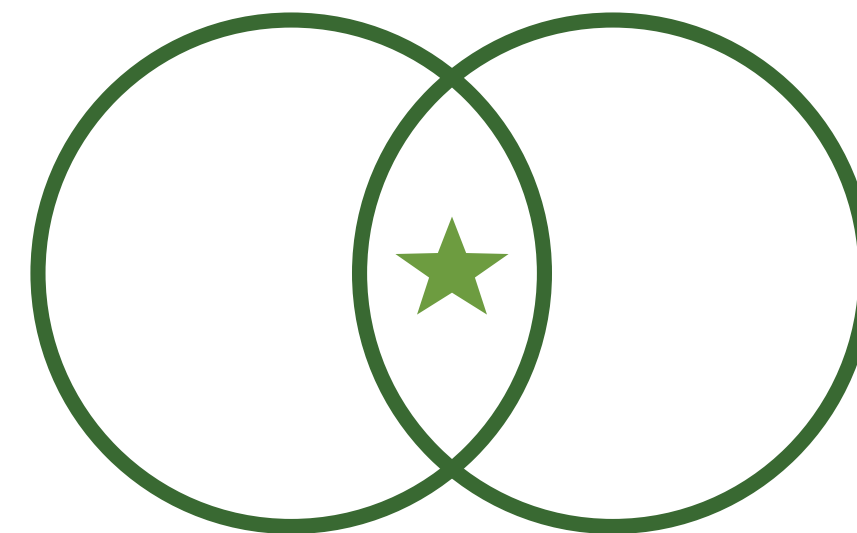
- = target pressure
- = target drift reduction
- = effort

OptiNozzle.

Combination of best coverage and perfect drift reduction.

High drift reduction

- + Environmentally friendly due to greatly reduced input on non-target areas
- + Compliance with the application conditions and, with it, wider approval for certain methods
- + Less impact on the atmosphere with less drift



OptiNozzle

combines the best of both parameters.

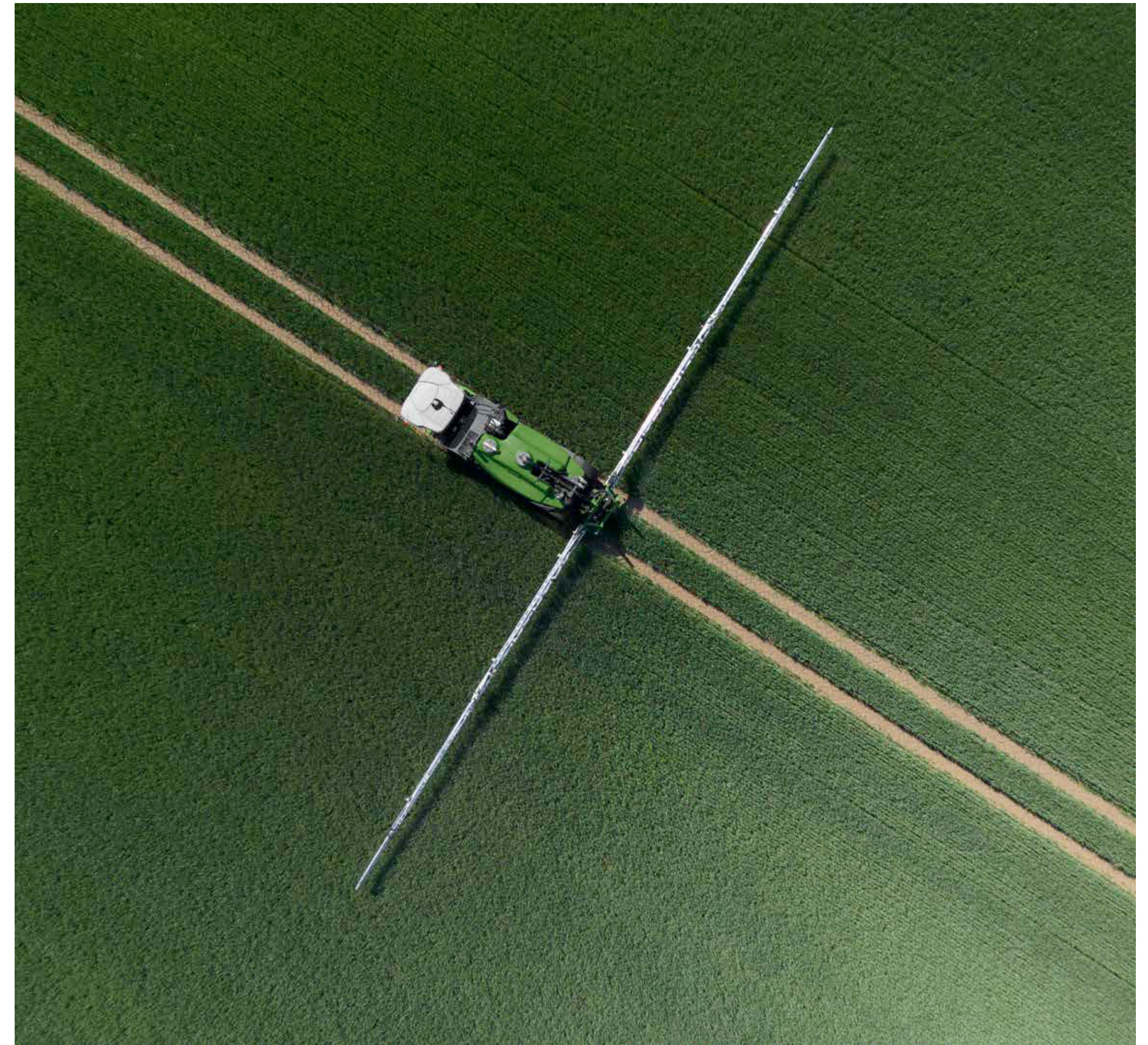
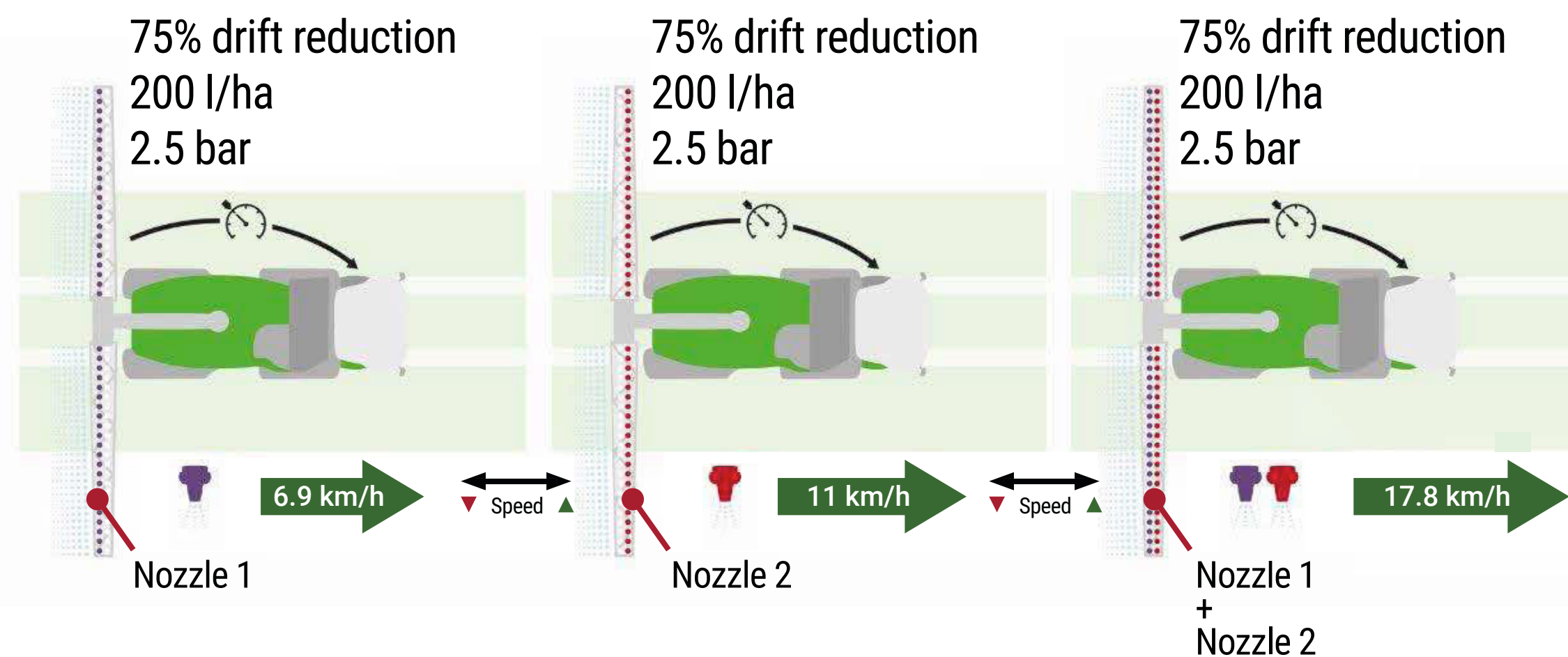
Best results

- + Better coverage
- + Less expenditure
- + More yield
- + Less risk of crop disease outbreaks
- + Higher pressure range for the application
- + Higher capacity

SpeedControl.

Automatic adjustment of the application speed

- SpeedControl automatically adjusts the speed depending on the nozzle combination, so that the pressure at each nozzle is always just right.
- The SpeedControl function is similar to TIM on the Rogator 300. In this case, the RG 300 controls the driving speed of the towing vehicle.

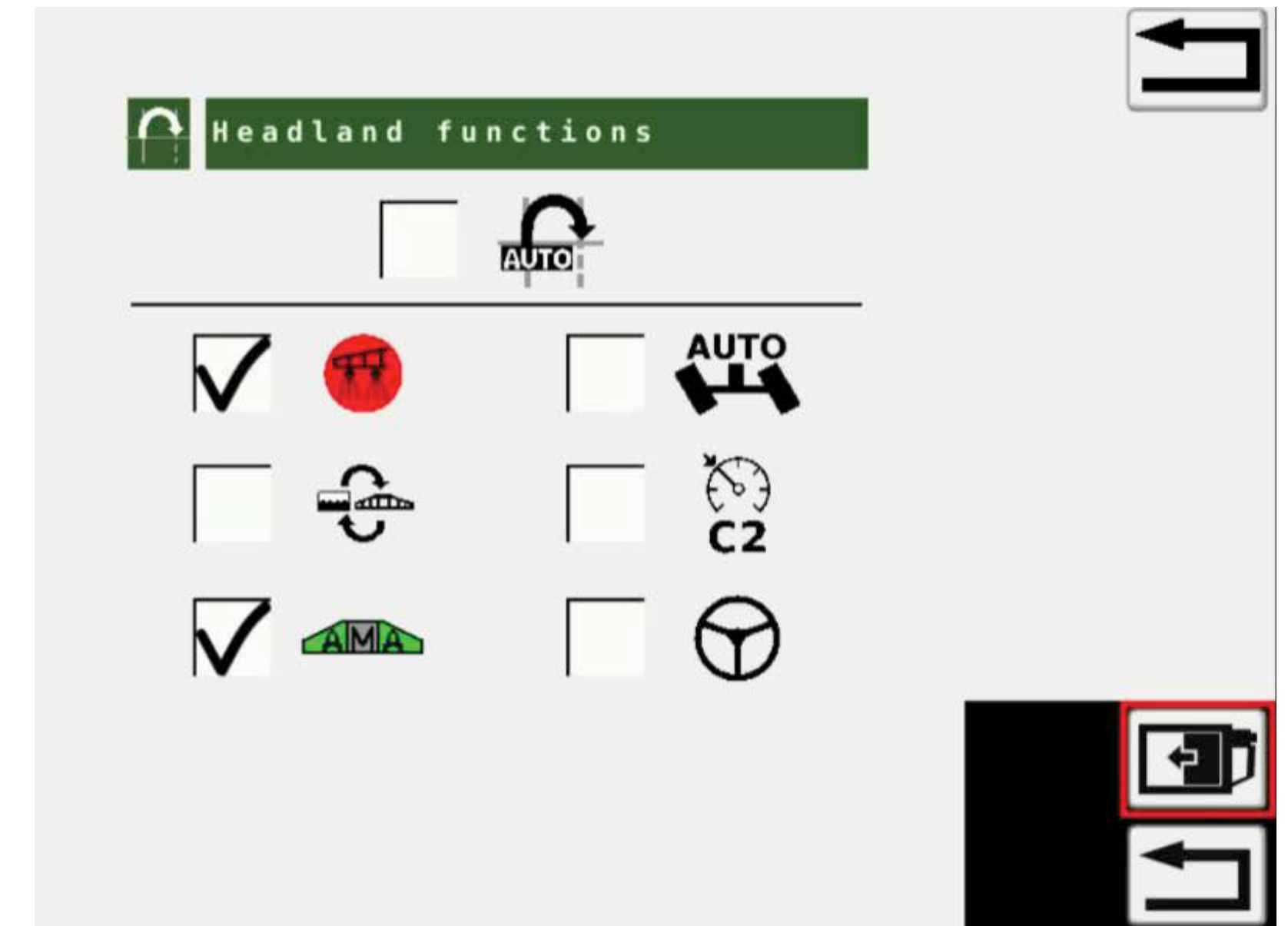


Headland management.

Options

When headland management is activated, the following functions can be activated automatically if required:

- On-off spray main switch
- Activate headland position OptiSonic boom height management
- On-off boom all-round flushing
- On-off rear axle steering
- Change from cruise control C1 to cruise control C2
- On-off automatic Fendt Guide guidance system



Lighting.

Halogen

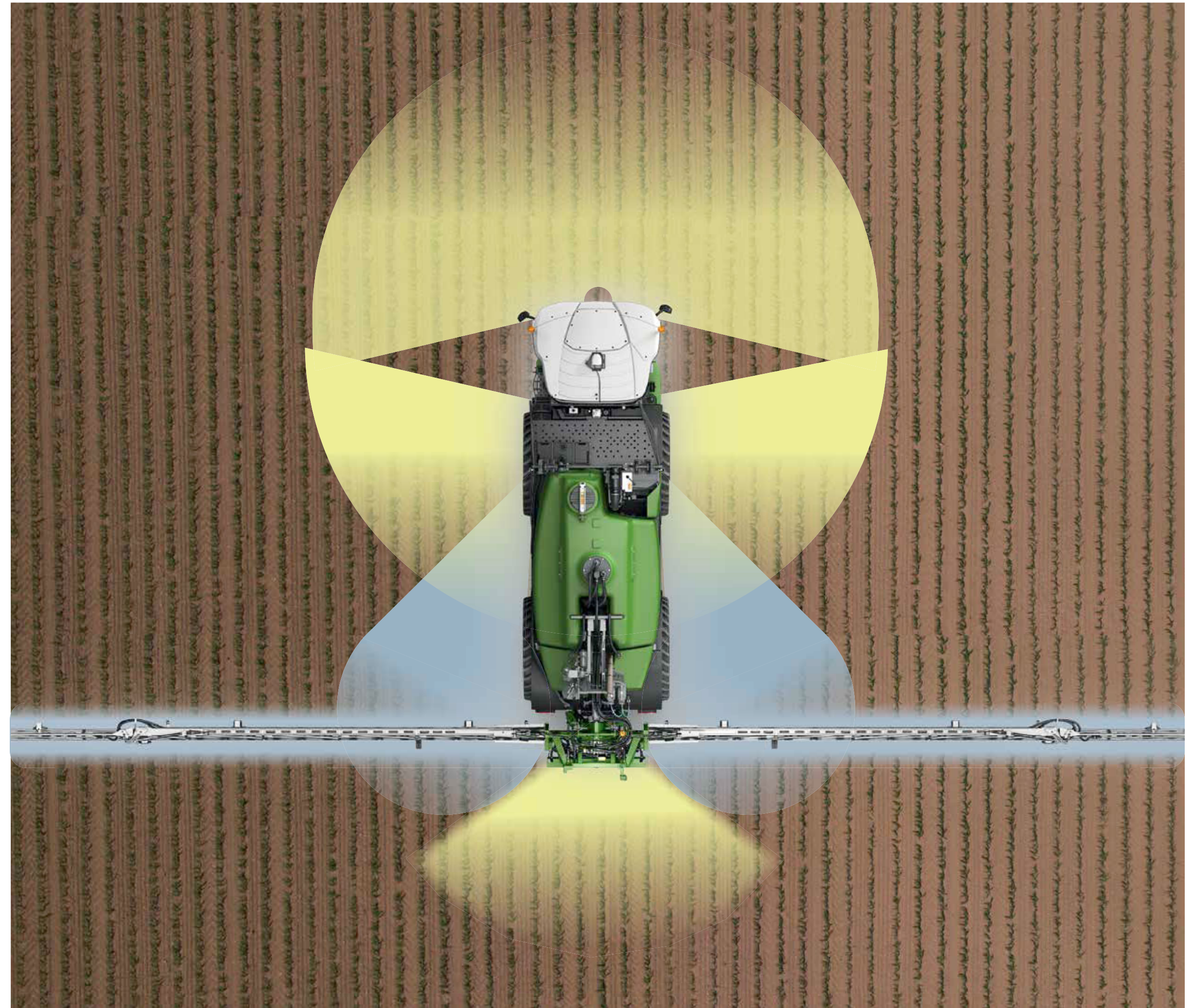
LED



Halogen package work lighting.

Equipment

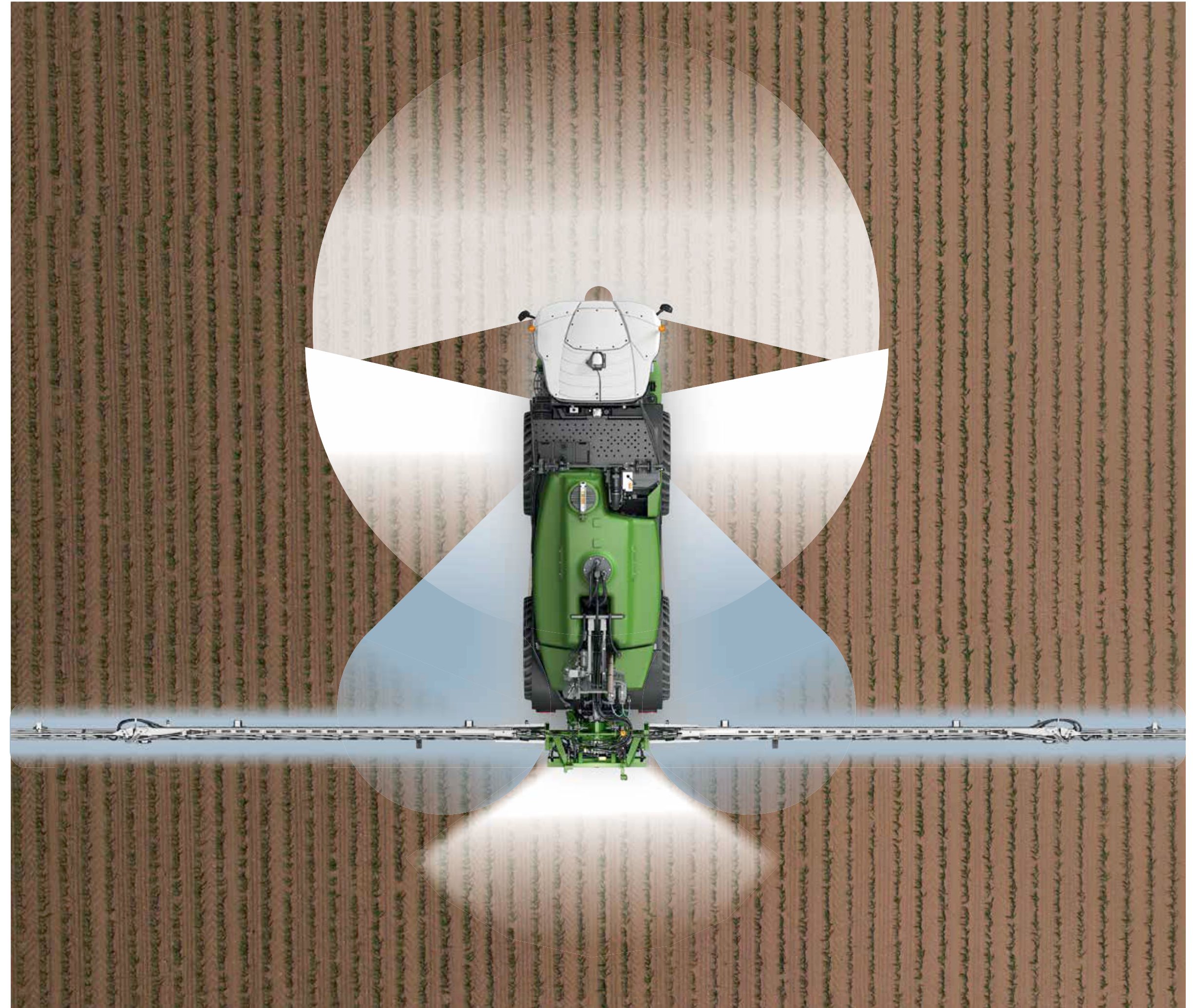
- 2x headlights in the front bumper
- 4x front bumper
- 2x cab front, halogen
- 2x cab rear side, halogen
- 2x boom support, halogen, blue
- 2x/4x nozzle lights, halogen, blue
- 1x reversing light, halogen
- 1x OptiFlow filling station, halogen
- Number plate
- 2x rotating beacon, cab
- 2x rotating beacon, centre frame (optional)



Work lighting package – full LED.

Equipment

- 2x headlights in the front bumper
- 4x front bumper
- 2x cab front, LED
- 2x cab rear side, LED
- 4x boom support, LED, blue
- 2x/4x nozzle lights, LED, blue
- 1x reversing light, LED
- 1x OptiFlow filling station, LED
- Number plate
- 2x rotating beacon, cab
- 2x rotating beacon, centre frame (optional)



OptiFlow filling station.

OptiFlow filling station

Spray agent flow control

OptiFlow control panel

OptiFlow

Automatic tank refill



OptiFlow filling station.

Suction mode

Wash reel mode



OptiFlow control centre

Electronic 5-way valve

Pressure filter

Suction filter



1" clean water connection

3" refill connection

3" transfer valve

Spray agent flow control.

Valve options

- The pressure side of the pump is switched via the 5-way valve
 - Refilling
 - Sprayers
 - Rinse tank
 - Handover
- With the electrical 5-way valve, the tank rinsing can be started without leaving the cab



Manual 5-way valve



Electrical 5-way valve

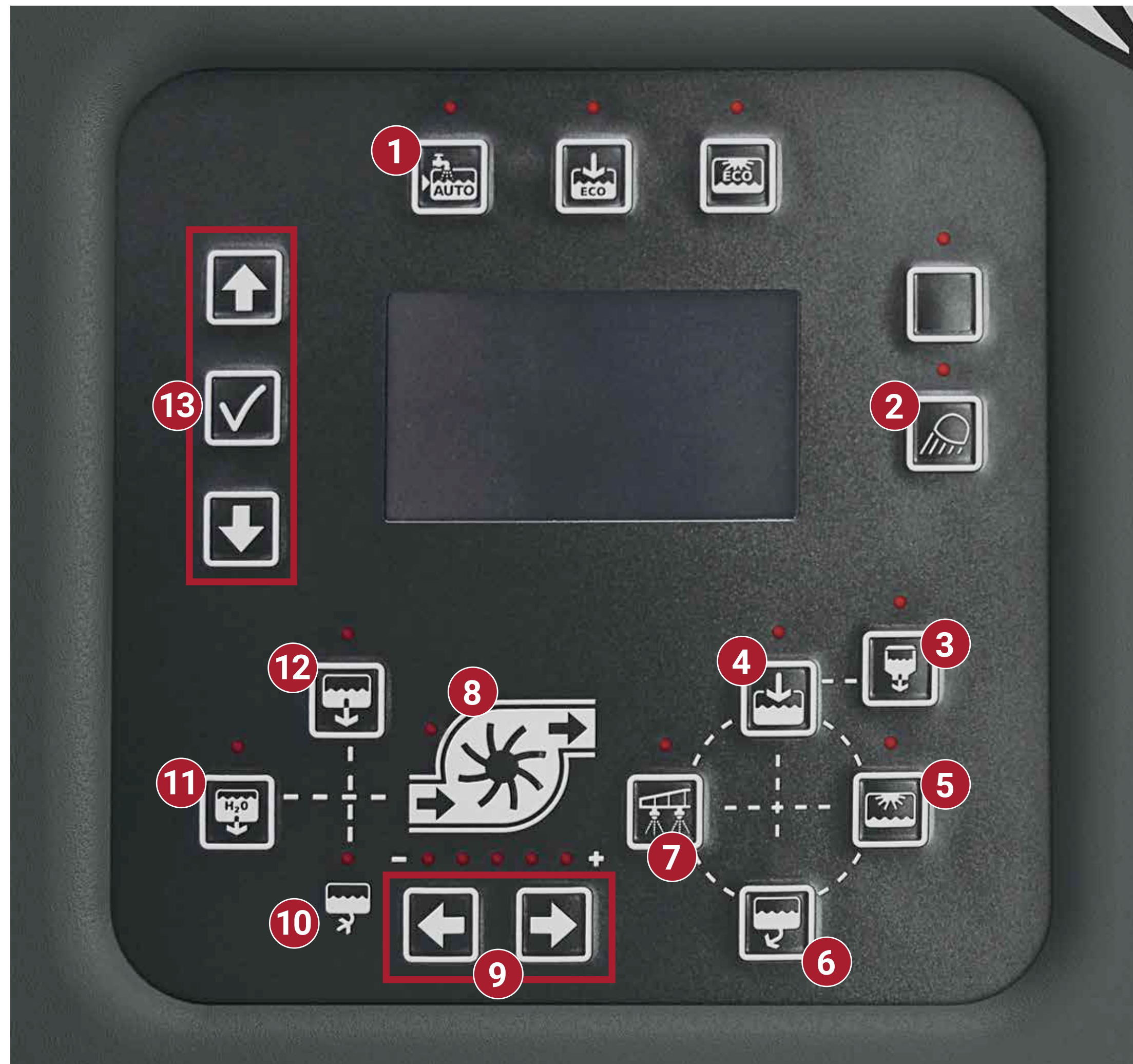
OptiFlow control panel.

Clear view of the valve control

- Button control panel as standard
- Suction side always electronically controlled
- Pressure side is controlled with a manual 5-way valve or by servo control on request
- Durable materials, resistant to chemicals
- Operate wearing gloves
- LED indicators
- Clear, intuitive icons
- Additional lighting by means of headlights included in the optional lighting packages (halogen or LED)



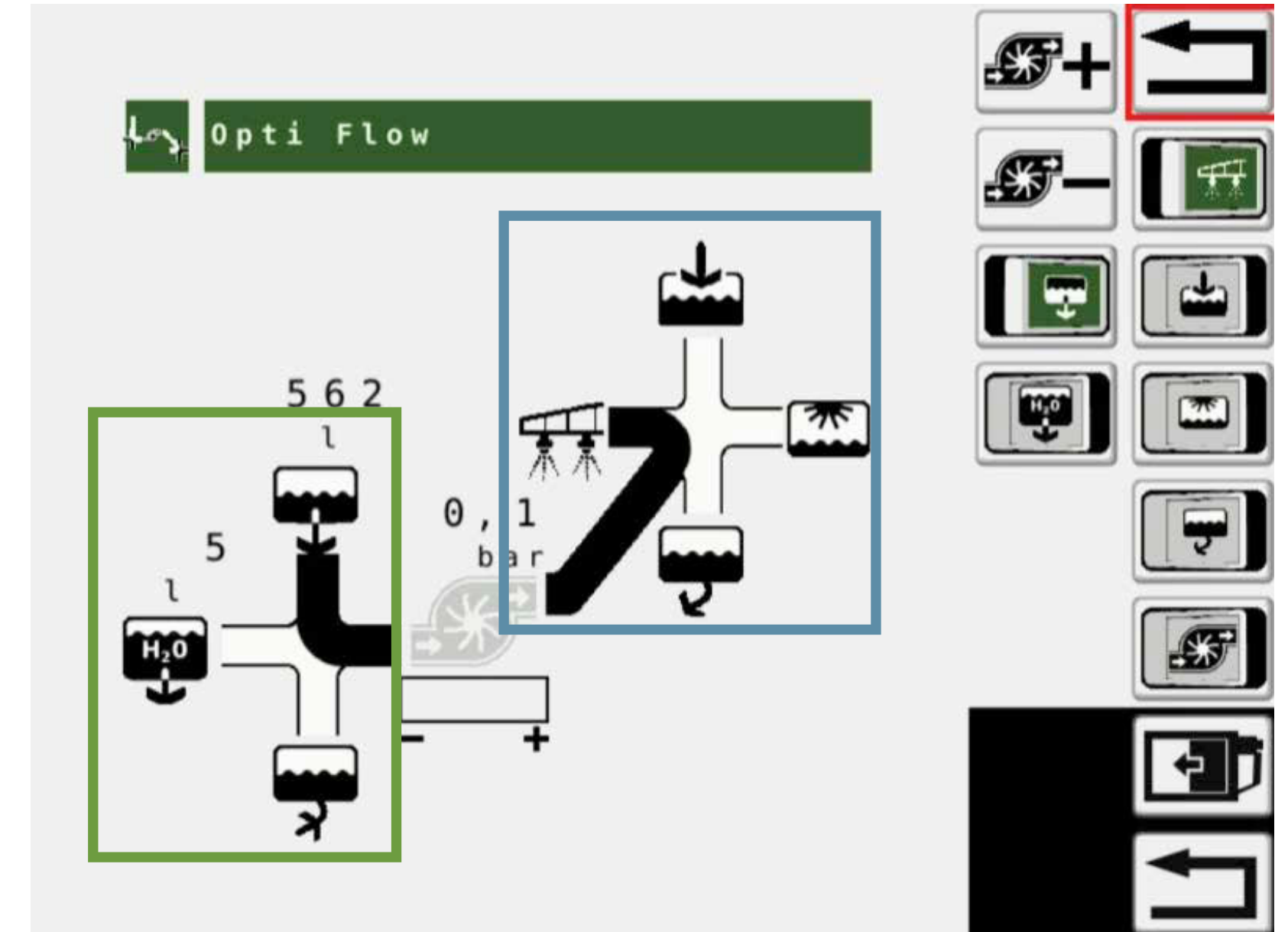
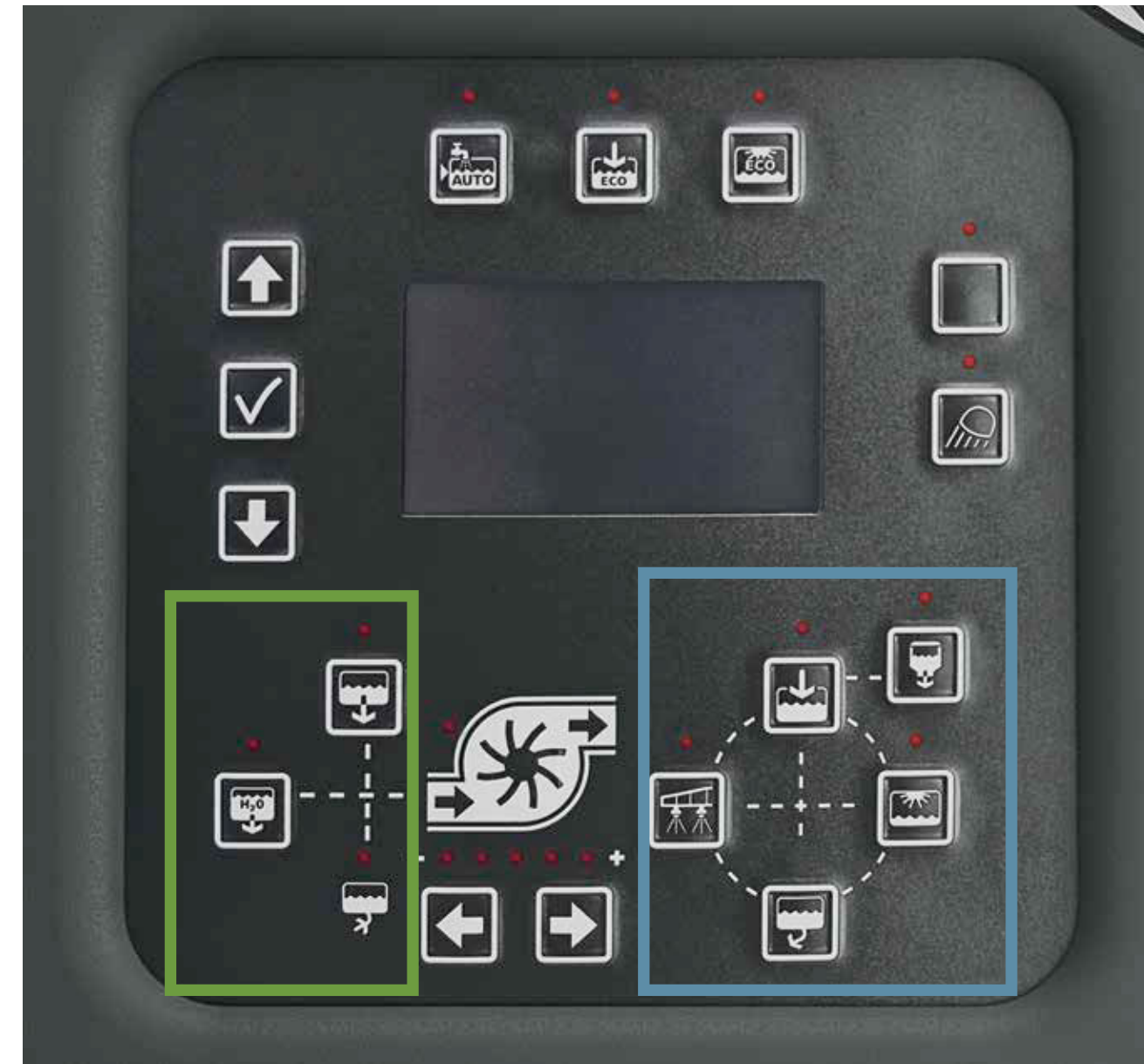
OptiFlow control panel.



- 1. Autofill
- 2. Work lighting
- 3. Injection lock on/off
- 4. Fill tank
- 5. Tank cleaning
- 6. Empty tank
- 7. Sprayers
- 8. Pump on/off
- 9. Pump speed
- 10. Reload
- 11. Clean water tank
- 12. Spray agent tank
- 13. Autofill settings

OptiFlow.

- Familiar structure of the user interface for the spray agent flow
- The familiarity of the user interface results from the complete in-house development



- The spray agent flow follows the liquid from source, via the centrifugal pump and to the chosen destination
- The green box shows the origin of the spray agent
- The blue box shows the end point of the spray agent

Autofill.

Automatic filling system as standard

- Less spray agent residue
- Less chemical use
- Eco-friendly
- Easy to use
- The pump stops automatically when the desired filling quantity is reached and an alarm signal sounds. The fill level is measured via a pressure sensor in the tank.
- Dry-running protection: The pump switches off automatically when the tank is empty



Spray agent flow.

Refill and suction filter

Centrifugal spray pump

Self-suction adapter

Drain and transfer residue liquids

EcoFill

Injection lock

Flow meter

Recirculation

Recirculation Off, Spray On

Recirculation On, Spray Off



Refill and suction filter.

Functionality and features

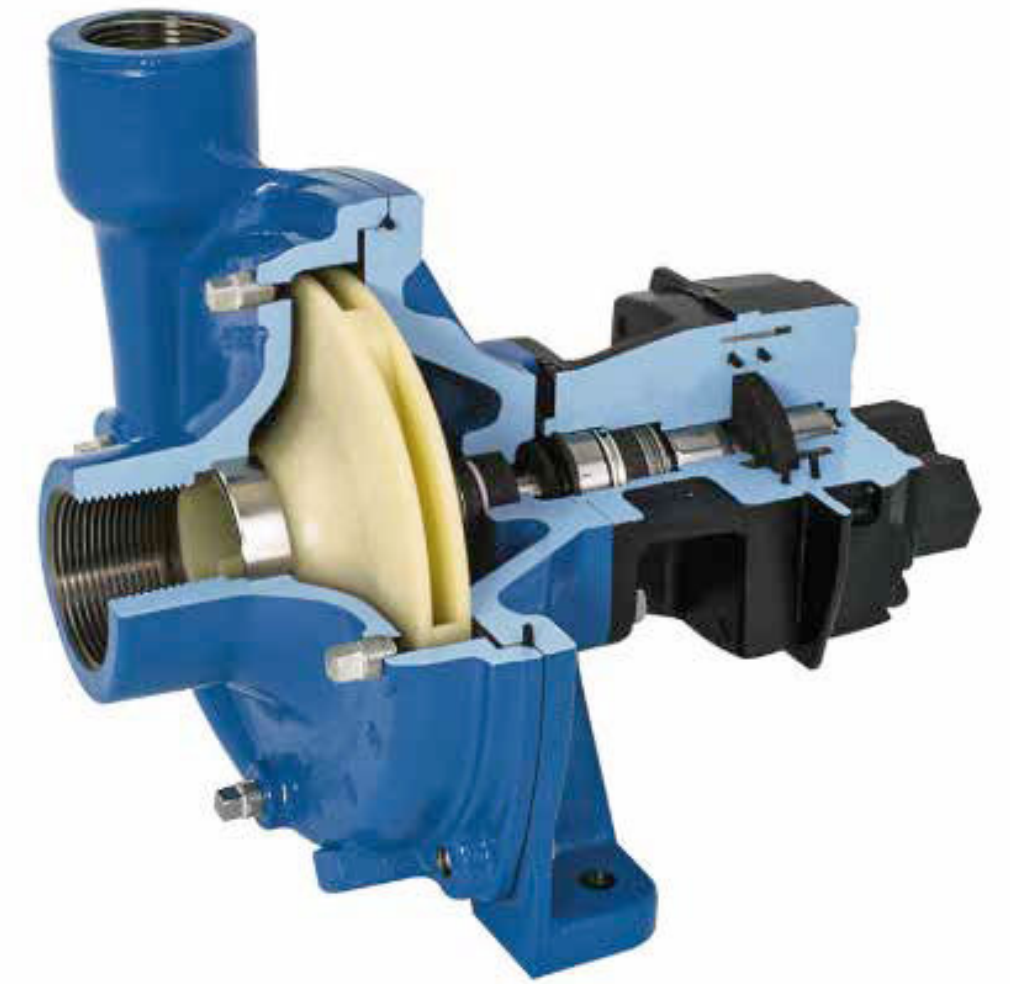
- If the 5-way valve is in the refill position, the pump can pump liquid directly into the product tank and operate the chemical injection lock at the same time
- When refilling, the pump speed can be adjusted via the control panel to control the time required for refilling and to prevent foaming with some substances
- The 3-inch suction filter from Banjo is easy to clean and comes with 12-mesh screens as standard; screens with mesh sizes from 4 to 50 mesh are available as replacement parts on special request



Centrifugal spray pump.

Perfect features and quality

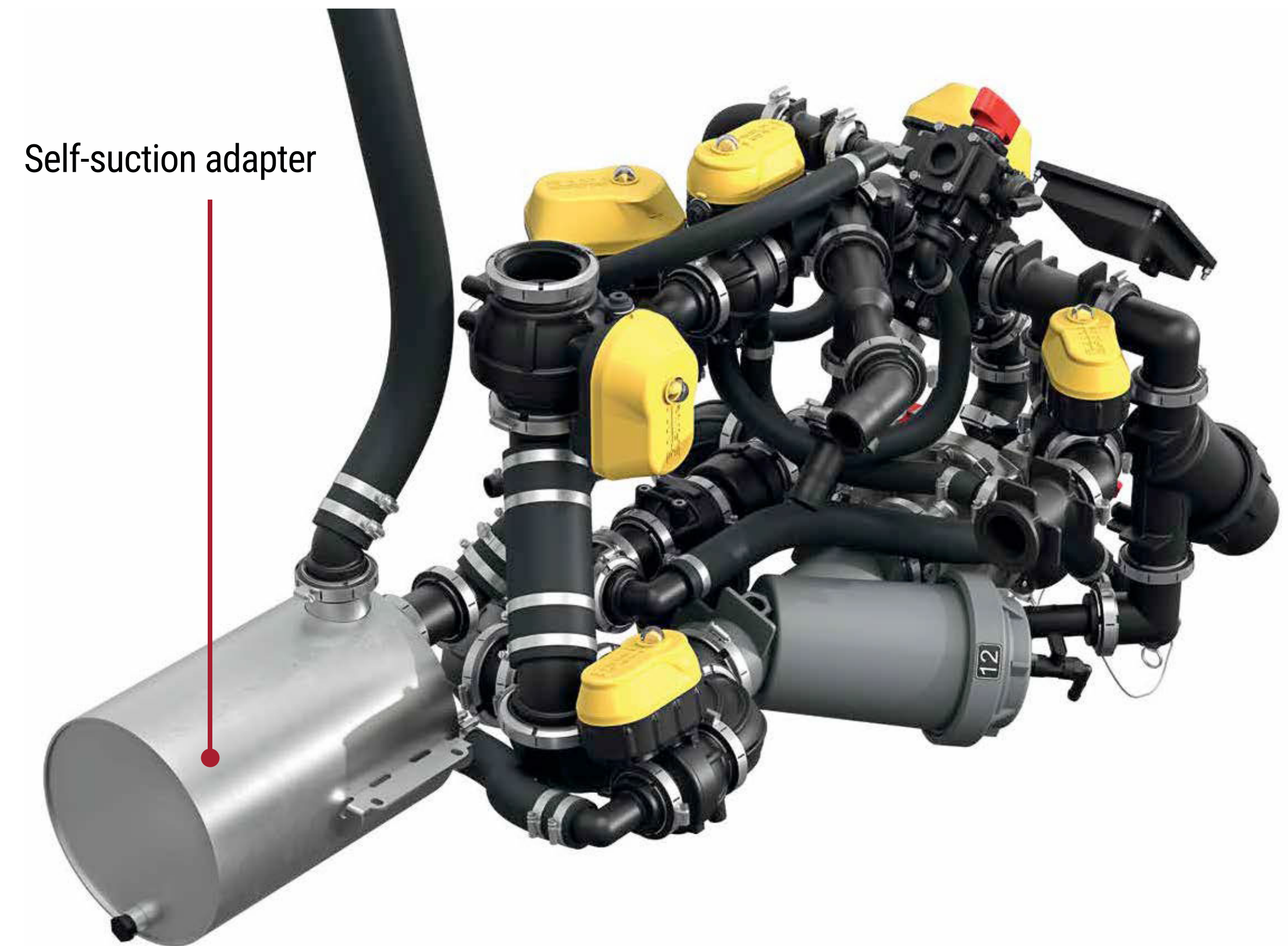
- Quality-tested: every pump that leaves the factory is individually tested
- Wide output range; max. capacity for spraying and agitator
- Hydraulically driven
- Low maintenance; no oil bath, no wearing parts such as diaphragms
- Special long-life Life Guard seals
- Huge pump output up to 785 l/min
- Pump speed to control the flow: fast and direct response
- Anti-corrosion pump components
- No pulsing
- Stainless steel version available by special request (for customers who use high volumes of liquid fertiliser)
- Automatic pump switch-off when the tank level is set (in the terminal) and when the spray agent tank is empty (dry-running protection)



Self-suction adapter.

Automatic suction

- Auto-priming adapter; reservoir, vent line, electronic valve and pressure sensor
- Used to automatically prime the suction line
- When pump pressure builds up, the system automatically closes the circulation line
- The centrifugal pump can prime itself to a depth of 7 metres within 90 seconds



Draining and transferring residual liquids.

Options

- the spray pump can use the 3" transfer valve for the pressurised transfer of liquids
- You can drain the entire system by opening the 1" drain valve behind the spray pump
- Pressure and suction filter can be taken off with a full tank, The valves must be in the correct position.



Clear water connection

Transfer/drainage

Filling/priming

EcoFill.

Features of the connection system

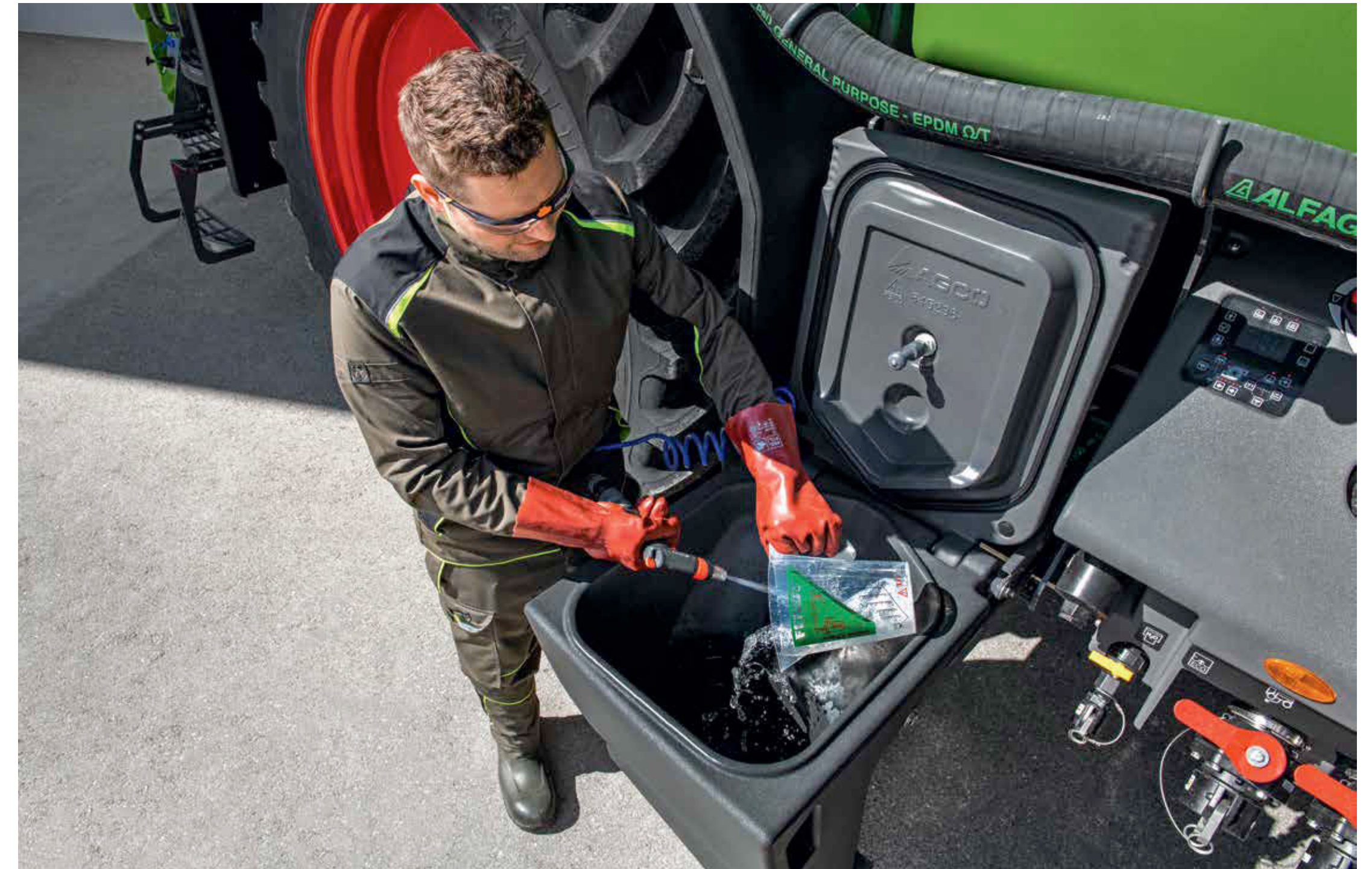
- The EcoFill connection system on the outside of the spray equipment is fitted with a Banjo dry-poppet coupling
- A suction hose with a dry-poppet coupling and a $\frac{3}{4}$ -inch lever arm coupling for filling the chemicals directly into the tank is also part of the EcoFill system



Induction Hopper.

Simple and efficient rinsing

- Easy fold in and out with a force of just 10 kg with the help of pneumatic springs in the frame.
- A gas strut keeps the lid of the induction hopper open or closed. The lid is equipped with an EPDM clamp seal to avoid leaks while rinsing the induction hopper .
- Durable PE material, the same as for the spray agent tank
- 60 litre volume
- 220 l/min or 33 kg/min suction capacity from the induction hopper
- The induction hopper has a rotating rinsing nozzle for rinsing out the measuring jug
- Large opening to fill the solutions without spilling, even if the solution spills out of the canister



Flow sensor.

Features

- Flow meter with a measuring range from 5 to 430 l/min
- Flow rate is regulated by adjusting the speed of the hydraulically driven spray pump without affecting other hydraulic functions
- Exact driving speed is monitored by wheel sensor or GPS
- The agitation flow is diverted upstream of the flow meter, no influence of the intensity of the agitation process on the control of the application rate

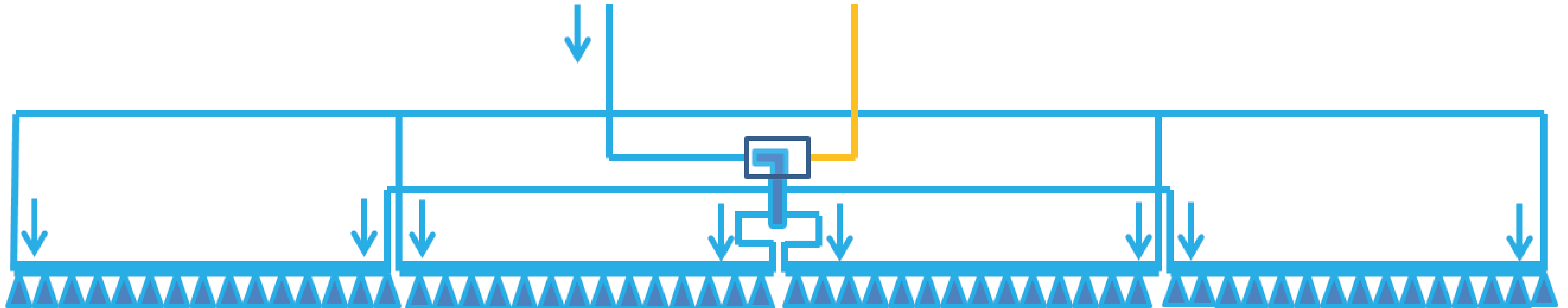


Recirculation.

- Standard feature
- High pressure recirculation
- Connections at eight points on the boom to minimise pressure loss between the nozzles
- No sediment deposits due to recirculation
- Pre-filling of the boom prevents unsprayed areas at the start of spraying

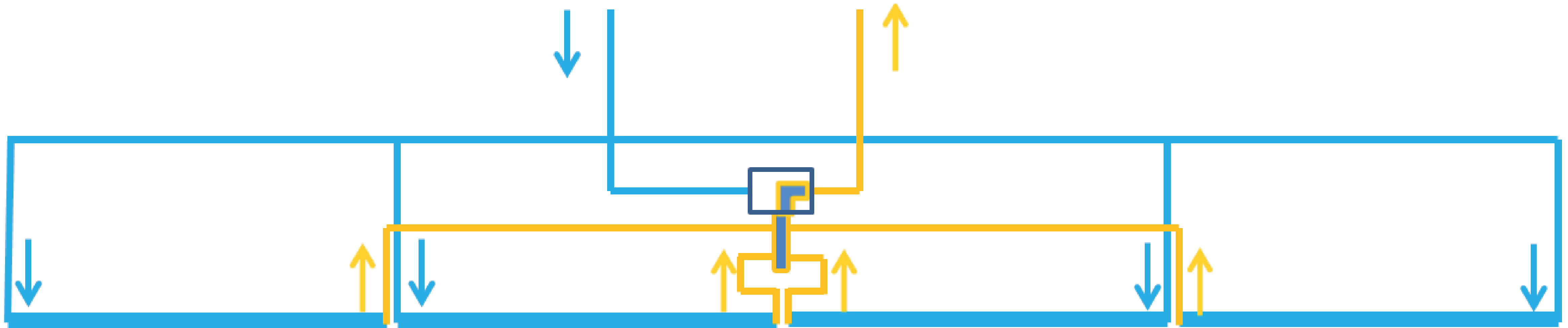


Recirculation Off, Spray On.



- The spray agent supplied to the boom by the spray pump is shown in blue
- The return to the tank is shown in yellow

Recirculation On, Spray Off.



- The spray agent supplied to the boom by the spray pump is shown in blue
- The return to the tank is shown in yellow

Spray agent tank.

Tank sizes

Spray agent tank

Tank feed

Tank shape

Fill level indicator

Stirring

Clean water tank

Flushing the tank

Automatic tank cleaning

ContiRinse



Tank sizes.

5000 l



6000 l



Model	Nominal tank capacity	Maximum volume of the tank*
645 & 655	5000 litres	5200 litres
655 & 665	6000 litres	6300 litres

Spray agent tank.

Processing and shape

- The product tank is made of durable LMDPE with a minimum thickness of 12 mm and is reinforced at the corners to increase stability
- Low centre of gravity due to wide tank design (across the entire width of the vehicle)
- The shape of the tank means it can be emptied completely
- No baffles required thanks to the wide and deep design of the tank



- Lockable PE tank lid
- Tank lid filter as standard



- Fitted on a support frame, no tension or connection points
- Roll cage holds the tank in position in an emergency
- Durable 12 mm LMDPE material

Tank feed.

Centralised filling

- Central tank feed for all filling and return hoses. This reduces maintenance work on hoses and makes the filling process smoother.
- No foaming because the space between the feedthrough and the 4-inch filling pipe in the tank prevents a siphon effect
- Integrated overflow device with hose laid under the tank, so there's no contamination of the tank or other components in the event of accidental overfilling



Tank shape.

Excellent features

- Central tank feed for all filling and return hoses. This reduces maintenance work on hoses and makes the filling process smoother.
- No foaming because the filler pipe extends to the bottom of the tank
- The space between the feedthrough and the 4-inch filling pipe in the tank prevents a siphon effect
- Integrated overflow device with hose laid under the tank, so there's no contamination of the tank or other components in the event of accidental overfilling



Tank shape.

Construction

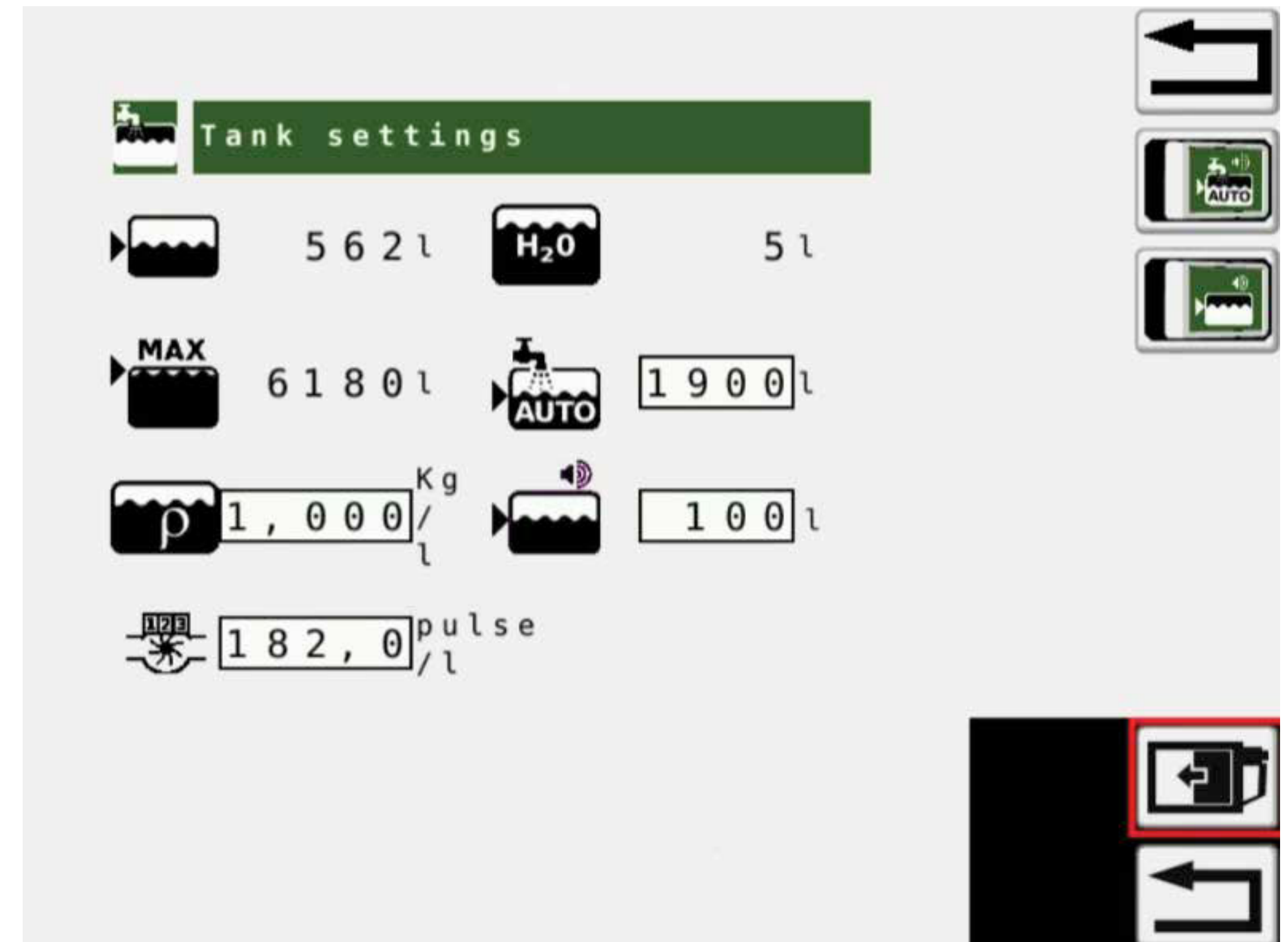
- Fitted on a support frame, no tension or connection points
- Roll cage holds the tank in position in an emergency
- Made from durable LMDPE with 12 mm wall thickness
- Low centre of gravity due to wide tank design (entire vehicle width)
- Due to its shape, the tank can be completely emptied up to a machine inclination of 10%
- No baffles required thanks to the wide and deep design of the tank
- PE fuel filler cap with lock



Level indicator.

Display and setting options

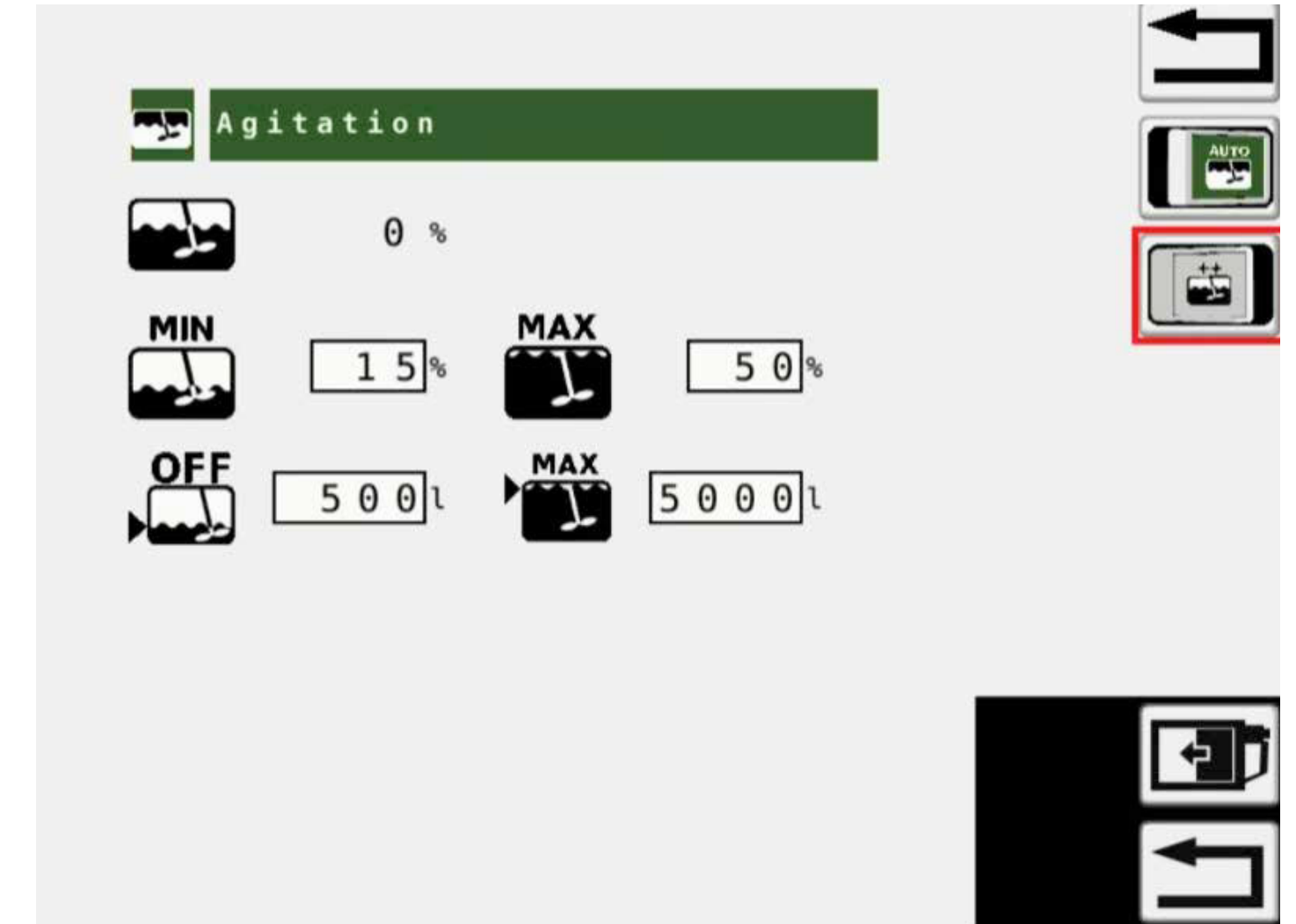
- Electronic display of the fill level via pressure sensor at the bottom of the tank
- Fill level is displayed on the OptiFlow touchscreen outside and in the cab
- Adjustment of the spray agent density to compensate for the different densities of the individual agents
- Programmable fill level for automatic delivery stop to prevent overfilling



Stirring.

Maximum stirring efficiency

- Application rate is not affected by the agitation process
- Programmable and constant strength of the stirring process
- Minimisation of foaming through adjustable minimum and maximum strength of the stirring process
- Agitating nozzles based on the Venturi principle ensure maximum agitating force, ratio 1:4



Clean water tank.

Features

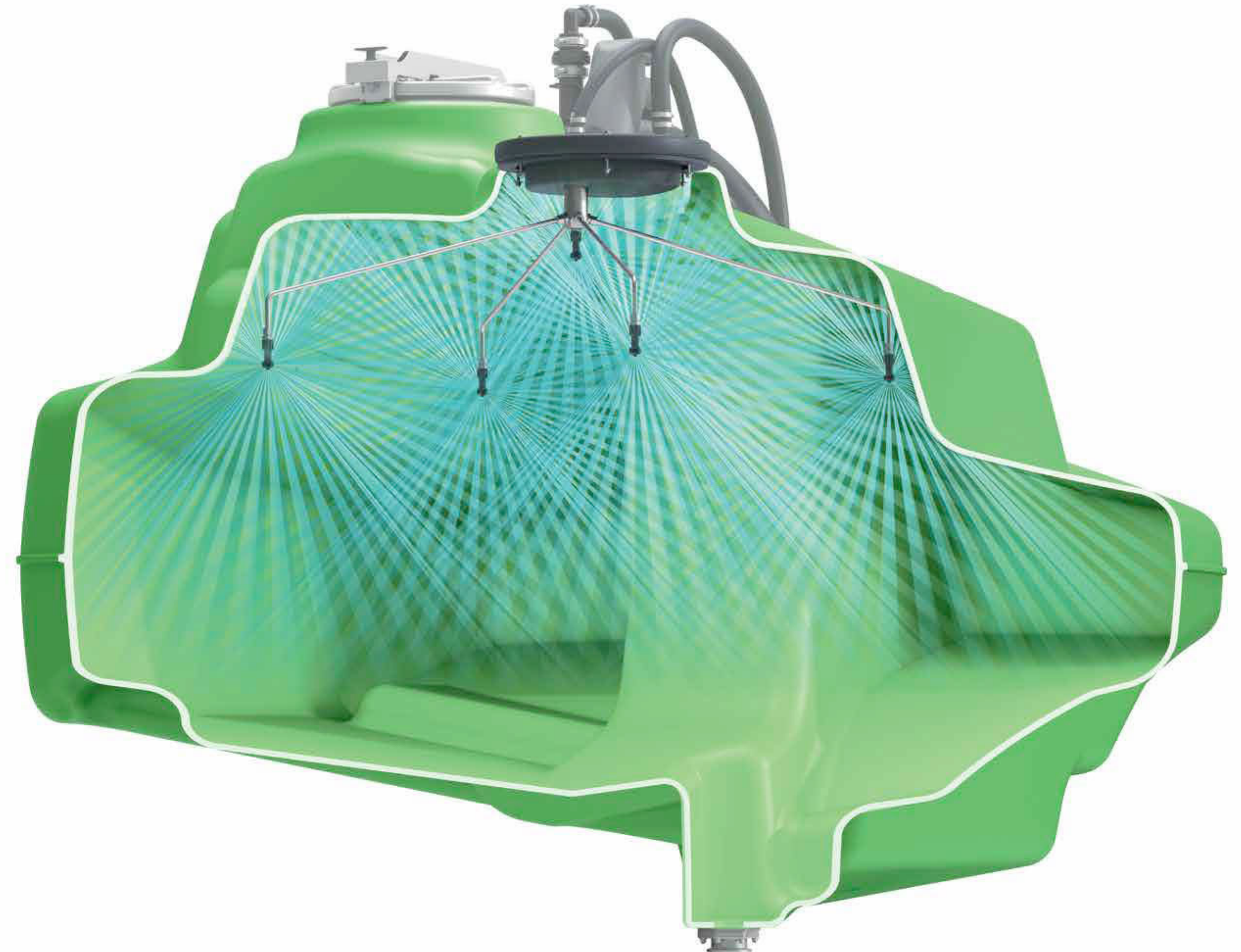
- Max. 660 litre capacity
- Made from durable LMDPE material
- Filling takes place via the OptiFlow filling station
- Connection for 1-inch lever arm coupling
- Pressure sensor enables electronic level measurement



Flushing the tank.

Hydro rotating flush nozzles

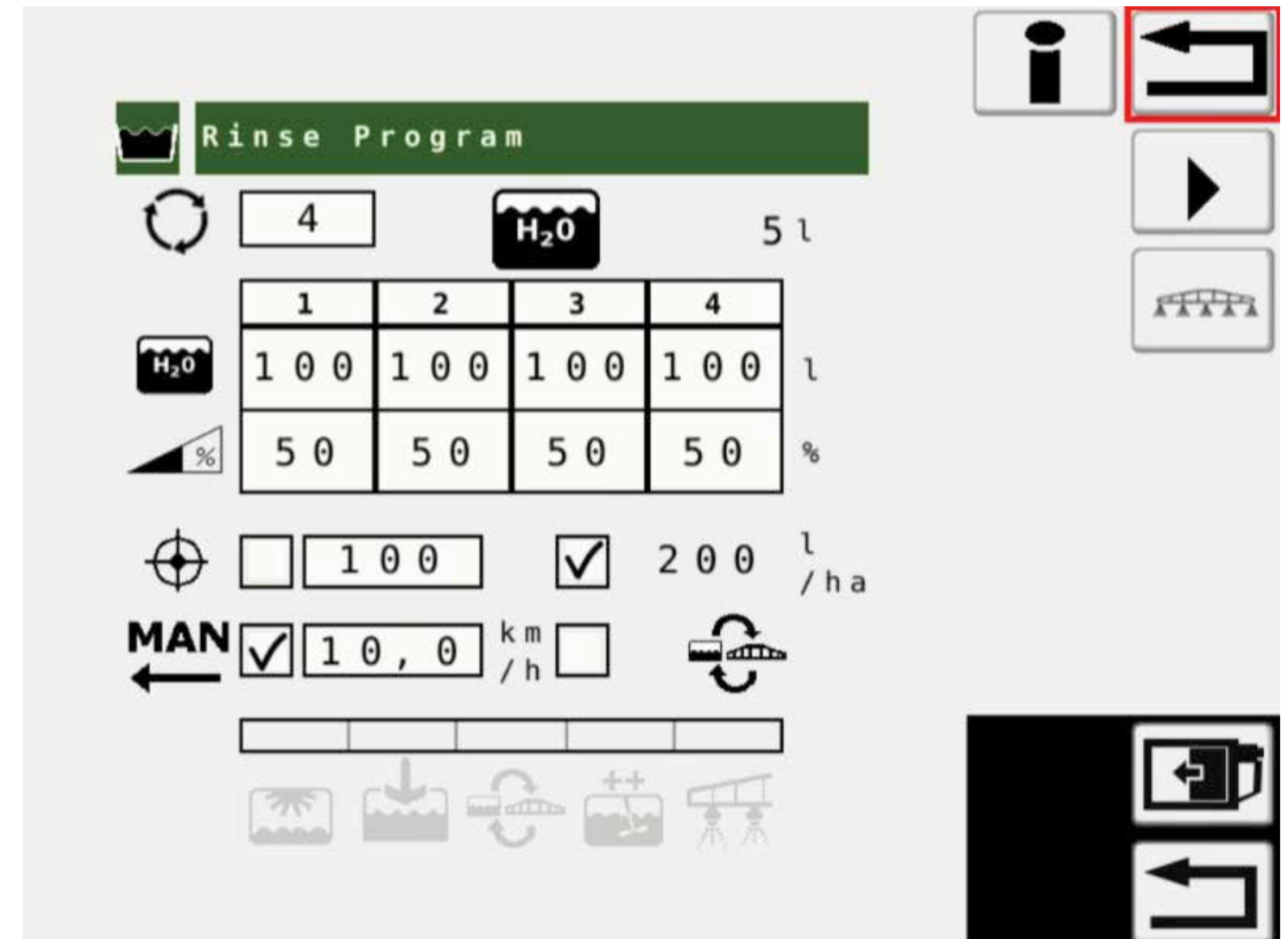
- Very fast and effective cleaning with minimal water consumption
- Cleaning is carried out using six fan nozzles operated by recoil to spray all surfaces without “blind spots” and achieve fast cleaning results



Automatic tank cleaning.

Setting options

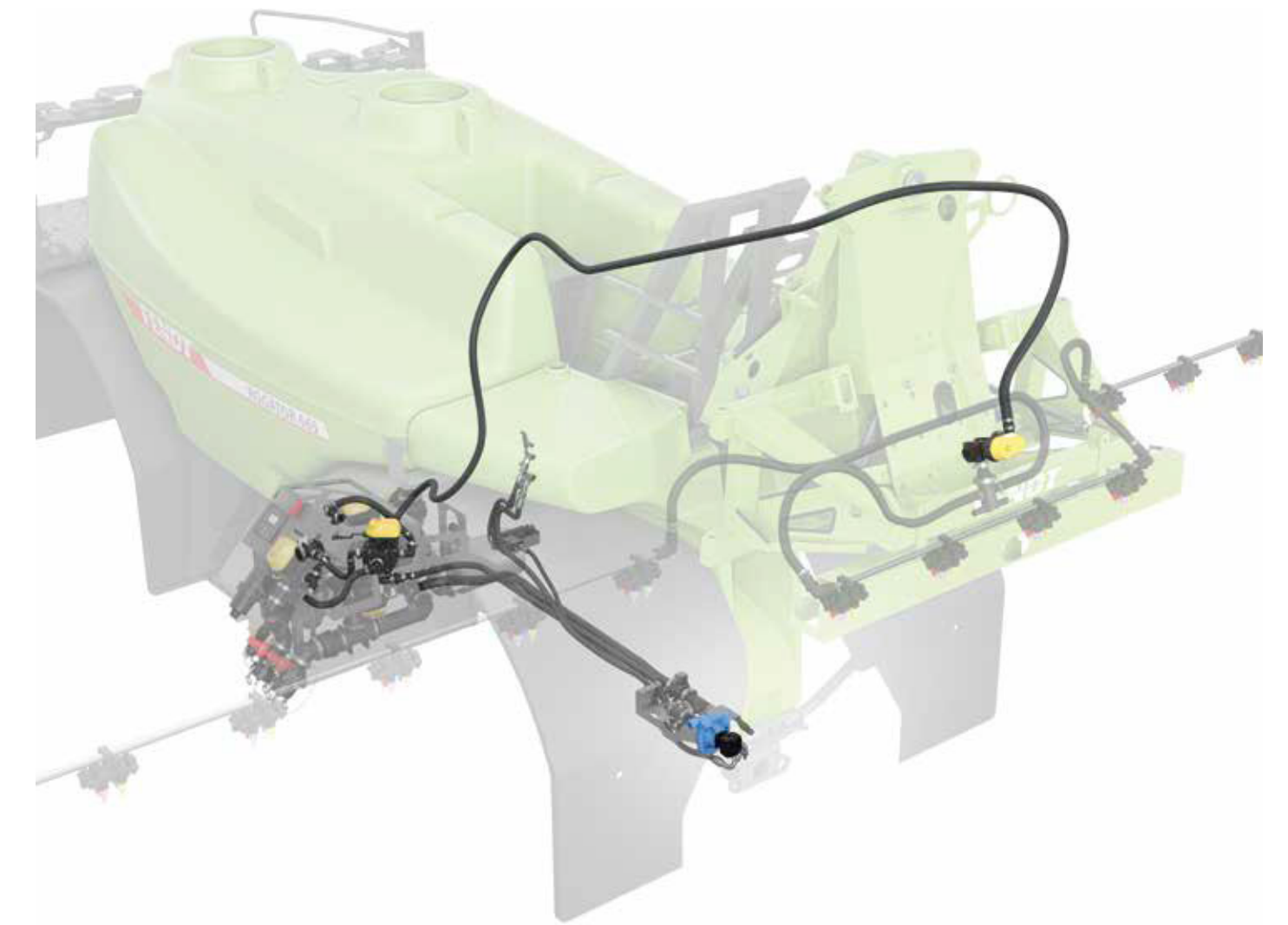
- Clean complete machine or just rinse the boom
- Adjustable:
 - Number of total flushing cycles
 - Water quantity per rinsing cycle
 - Intensity (change the time for each cycle)
 - Output rate (can also be done at a standstill)
 - Recirculation
 - Dual/Quad Line: automatic change of nozzles during the last 2 rinsing cycles
- Only in combination with the optional electric 5-way tap (S-S006 and S-S007) and electric tank level sensor (S-S028)



ContiRinse.

Particularly efficient cleaning

- ContiRinse enables cleaning while driving, as it is supported by a second pump. Pipes and hoses are cleaned step by step. The system cleans not only the tank, but all “contaminated” pipes.



- + Reduces the time required for the flushing process
- + Quick replacement of the spray liquid with clean water (displacement)
- + Cleaning all pipes and hoses that are part of the fluid system



ContiRinse.

ContiRinse cleaning procedure

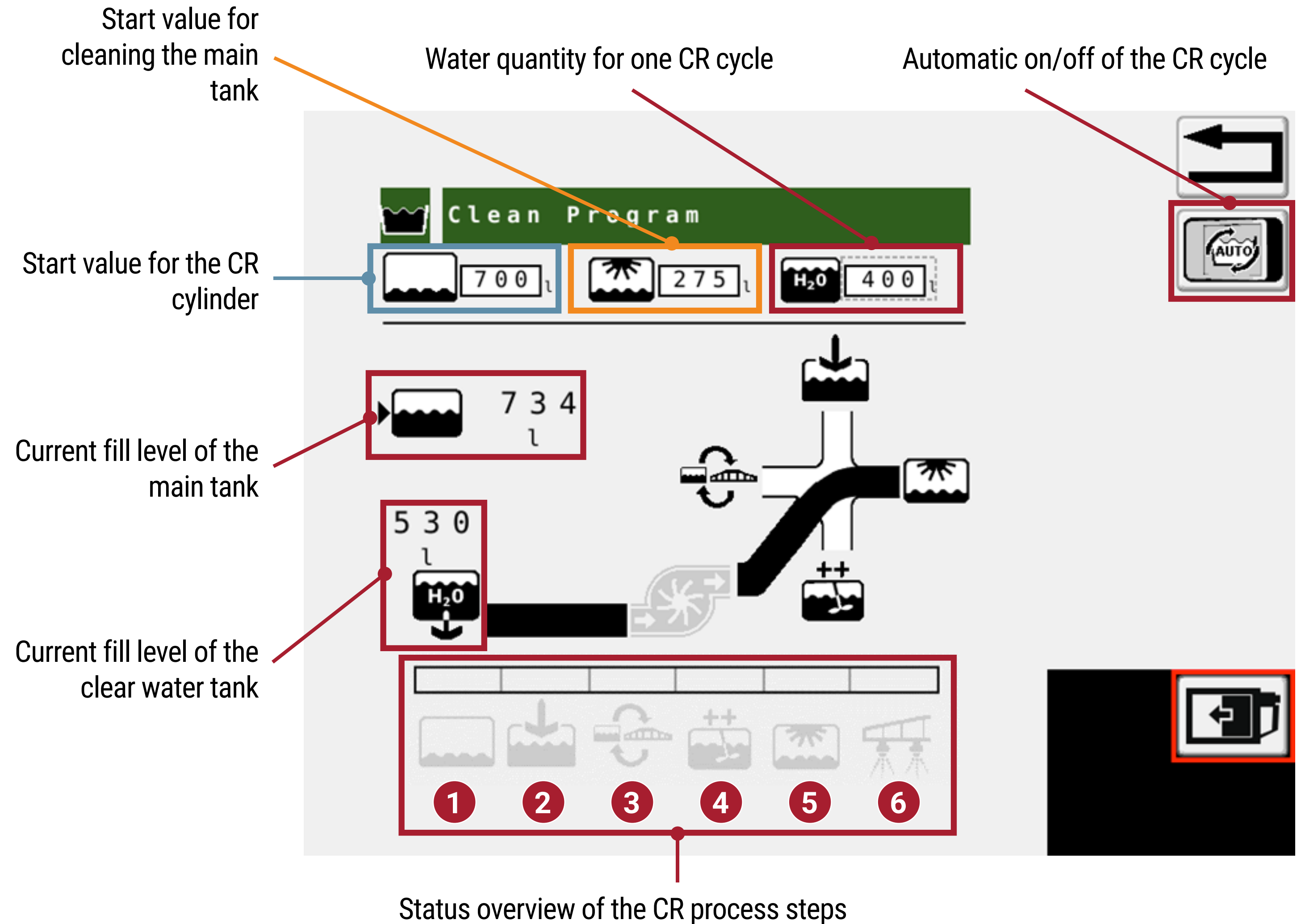
As soon as the fill level of the main tank **has reached the start value for a ContiRinse(CR) cycle**, cleaning takes place in the following steps:

- 1 Cycle start
- 2 Cleaning the filling line
- 3 Cleaning the recirculation line
- 4 Cleaning the agitator

Interruption until **the start value for cleaning the main tank** is reached.

- 5 Cleaning the main tank
- 6 Cleaning booms/nozzles

During process steps 2 – 4, only as much water is used as the volume of the sections. This limits the dilution of the residual quantity by the start of the 5th process step to a maximum of 10%.



ContiRinse.

Display and setting options

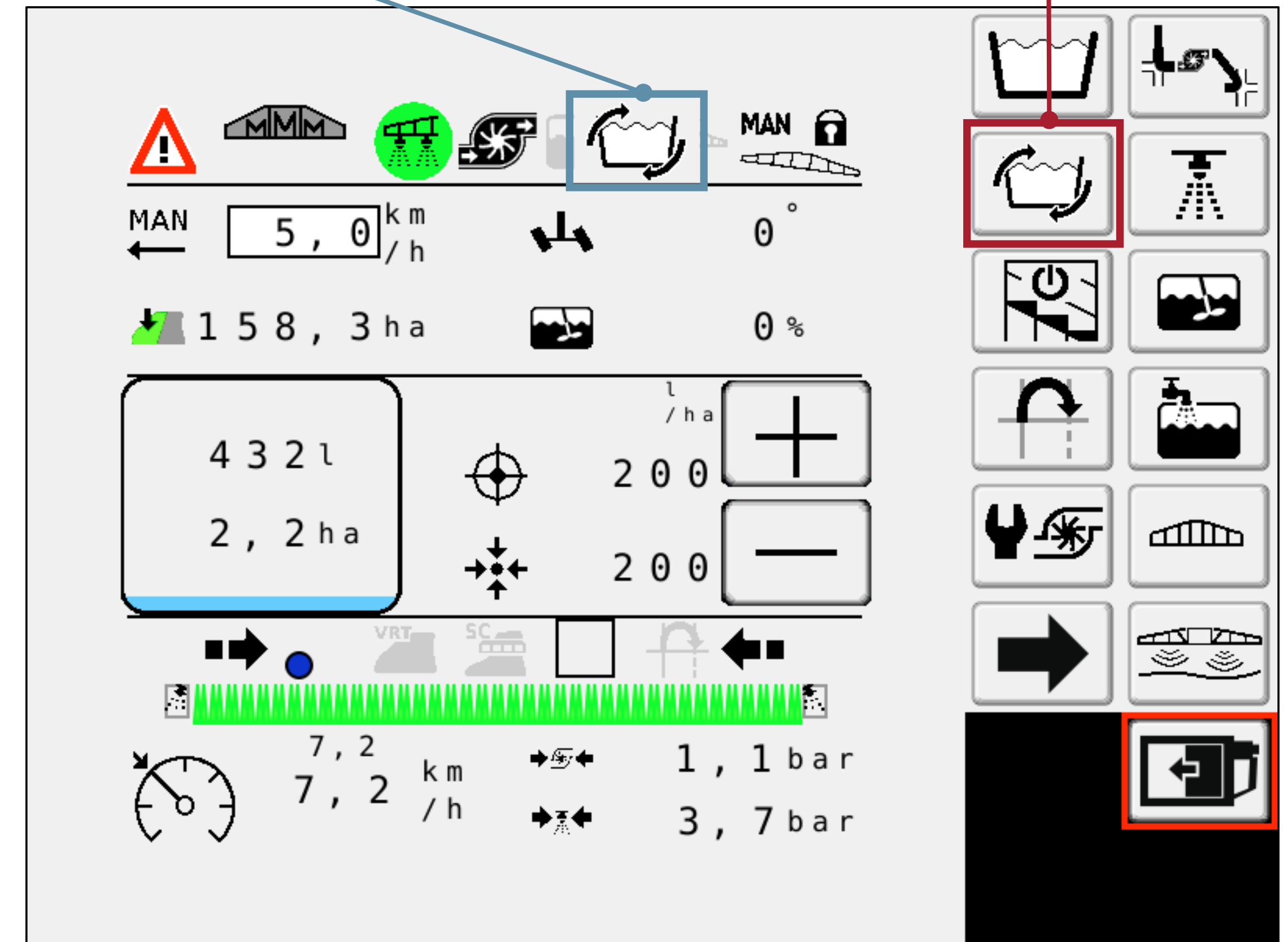
As soon as a ContiRinse cycle has been started (manually or automatically), the **ContiRinse symbol** covers the displays for agitator and recirculation, as these are not available during a cleaning cycle.

The menu for setting the various ContiRinse parameters can be opened using the icon on the right-hand side.

The ContiRinse feature is only available if the machine is equipped with the electric 5-way valve and the electric tank level sensor in addition to the second pump.

ContiRinse symbol when the cleaning cycle is active

Access to the settings menu for ContiRinse



Fendt Rogator 600 – Boom lift arm

Boom lift arm.

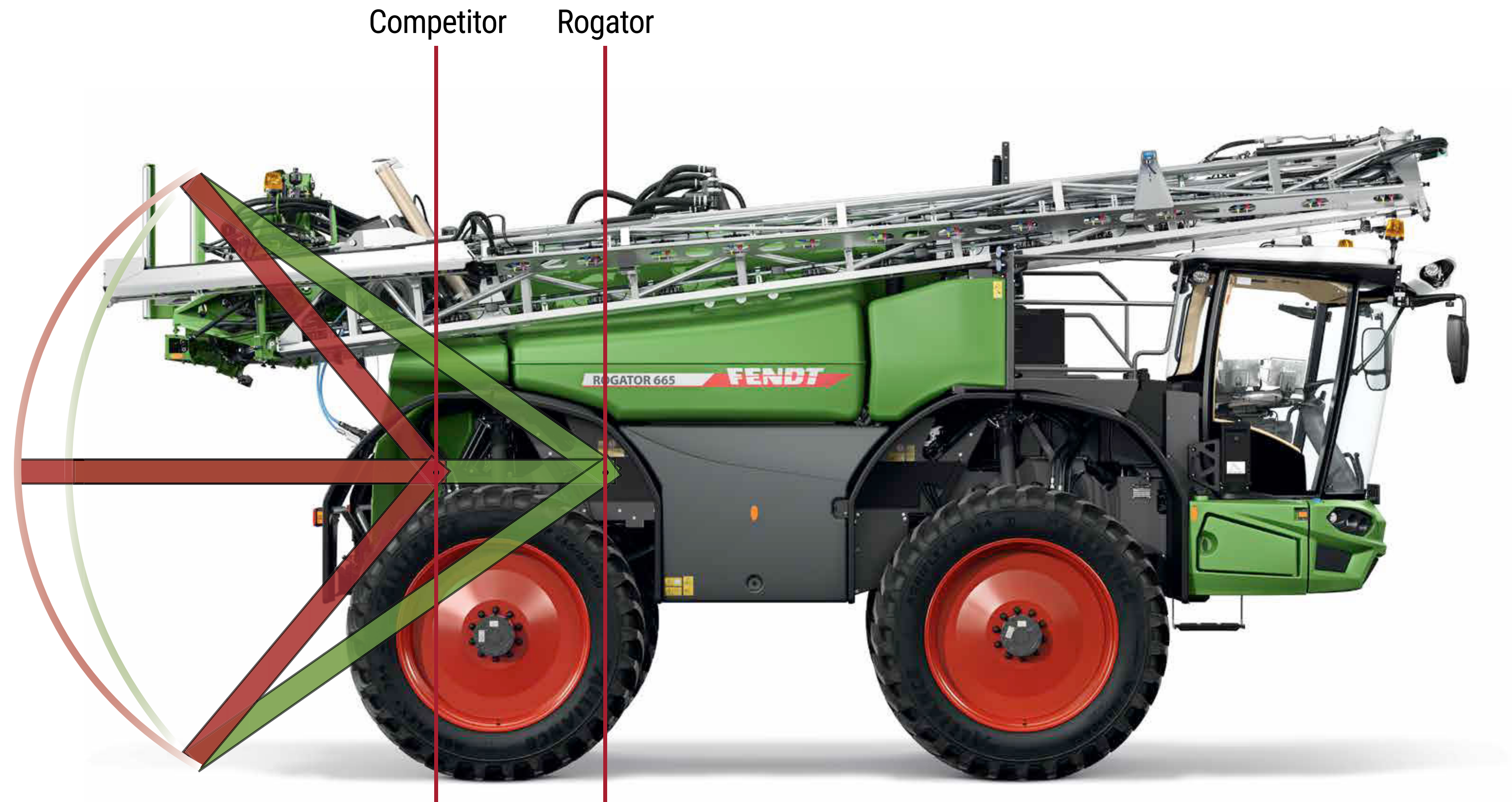
Pivot point



Pivot point.

Construction

- Compact design; increased manoeuvrability
- Boom mounted close to machine's rear axle; minimising boom movement
- Pivot point in front of the rear axle: greater stability of the boom
- Hydraulic and spray lines routed at smooth points
- Integrated design of the boom lift arm
- Straight up/down movement of centre frame



Fendt Rogator 600 – Centre frame

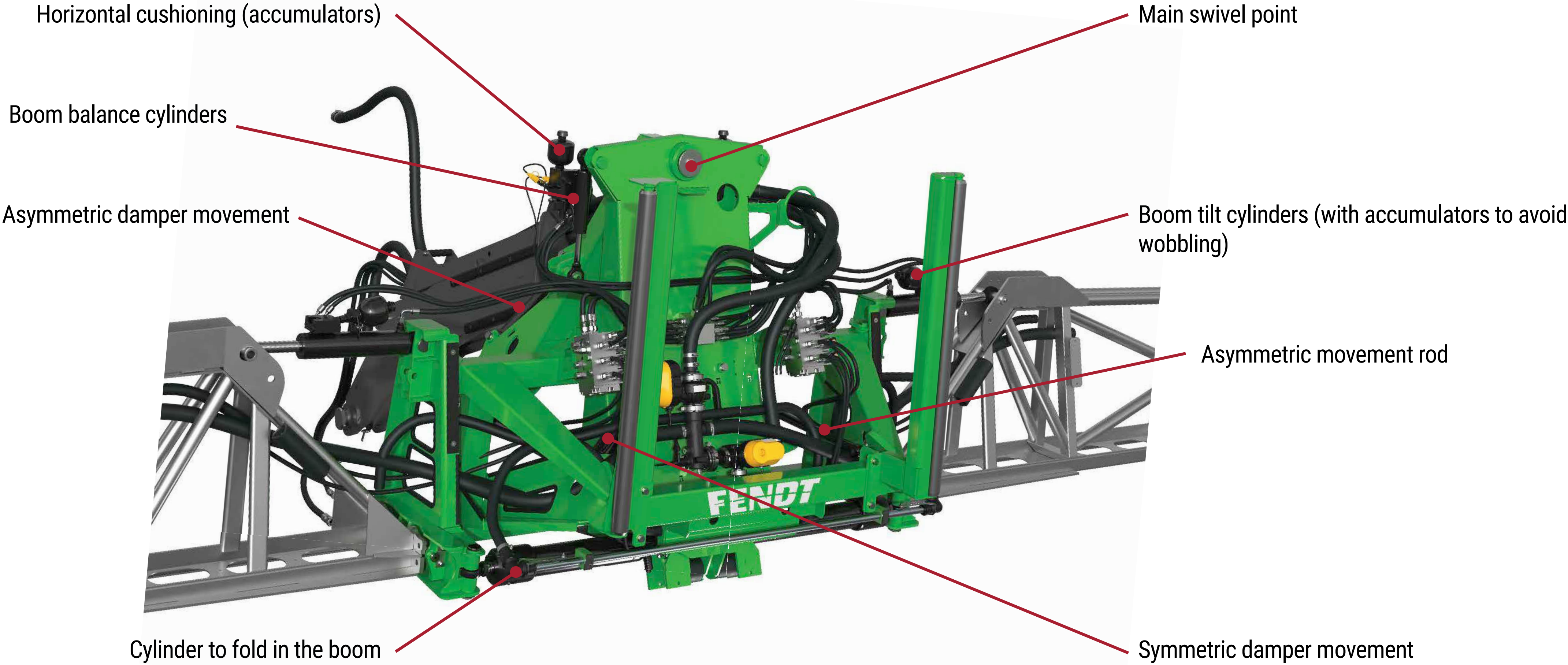
Centre frame.

Centre frame

Damper



Centre frame.



Centre frame.



Standard central frame

- Standard on all booms up to 28 m
- Optimum boom stability (horizontal & vertical)



HD centre frame

- Standard on all booms from 30 m
- Optimum boom stability (horizontal & vertical)
- Additional horizontal damping with additional dampers and rubber buffers
- Also available as an option for booms smaller than 30 m

Damper.

Equipment and features

- Gas pressure damper, high force at low speeds
- Rubber blocks act as springs
- Six identical dampers
- Differences in force due to different leverage
- No settings necessary



Rubber blocks



Gas pressure damper

Boom height management.

OptiSonic BHC

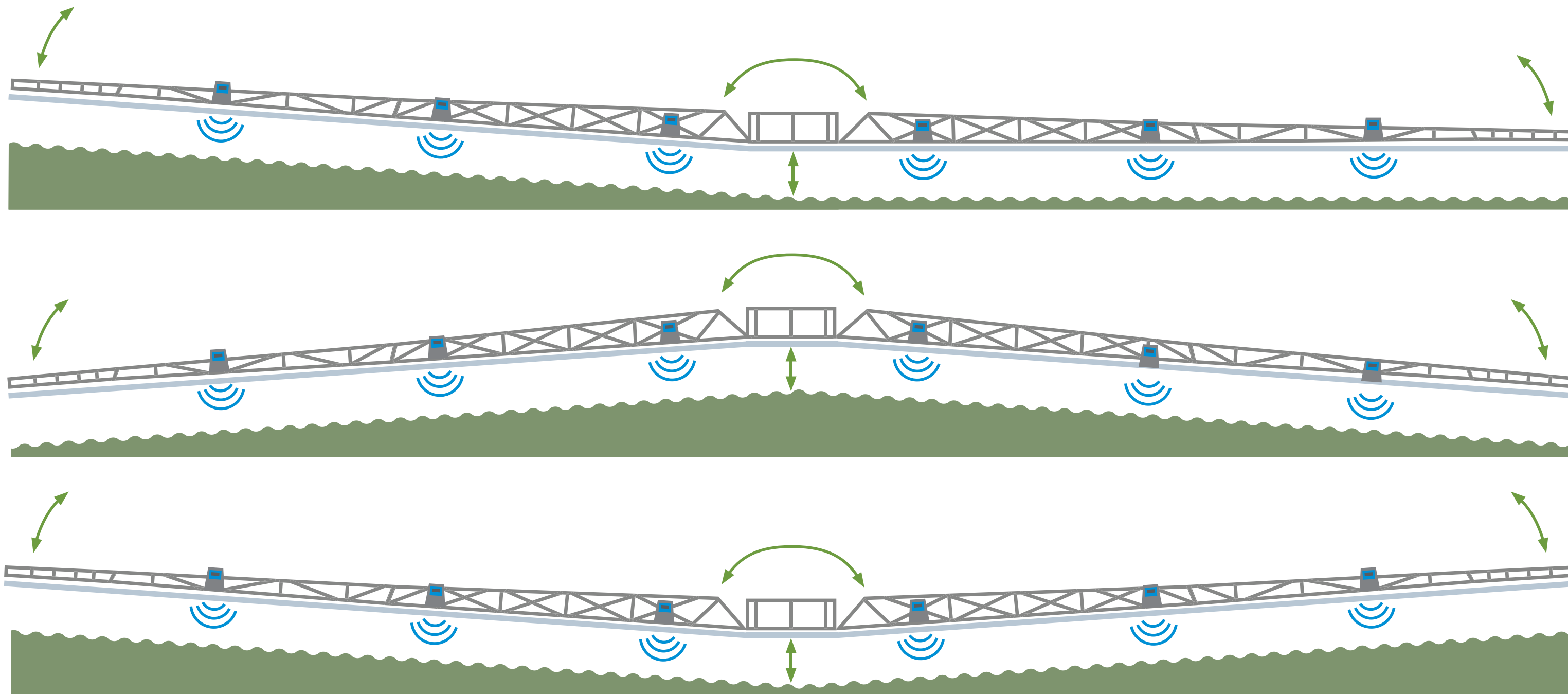
Boom lock



OptiSonic BHC.

OptiSonic BHC with actively controlled centre frame (Active Roll):

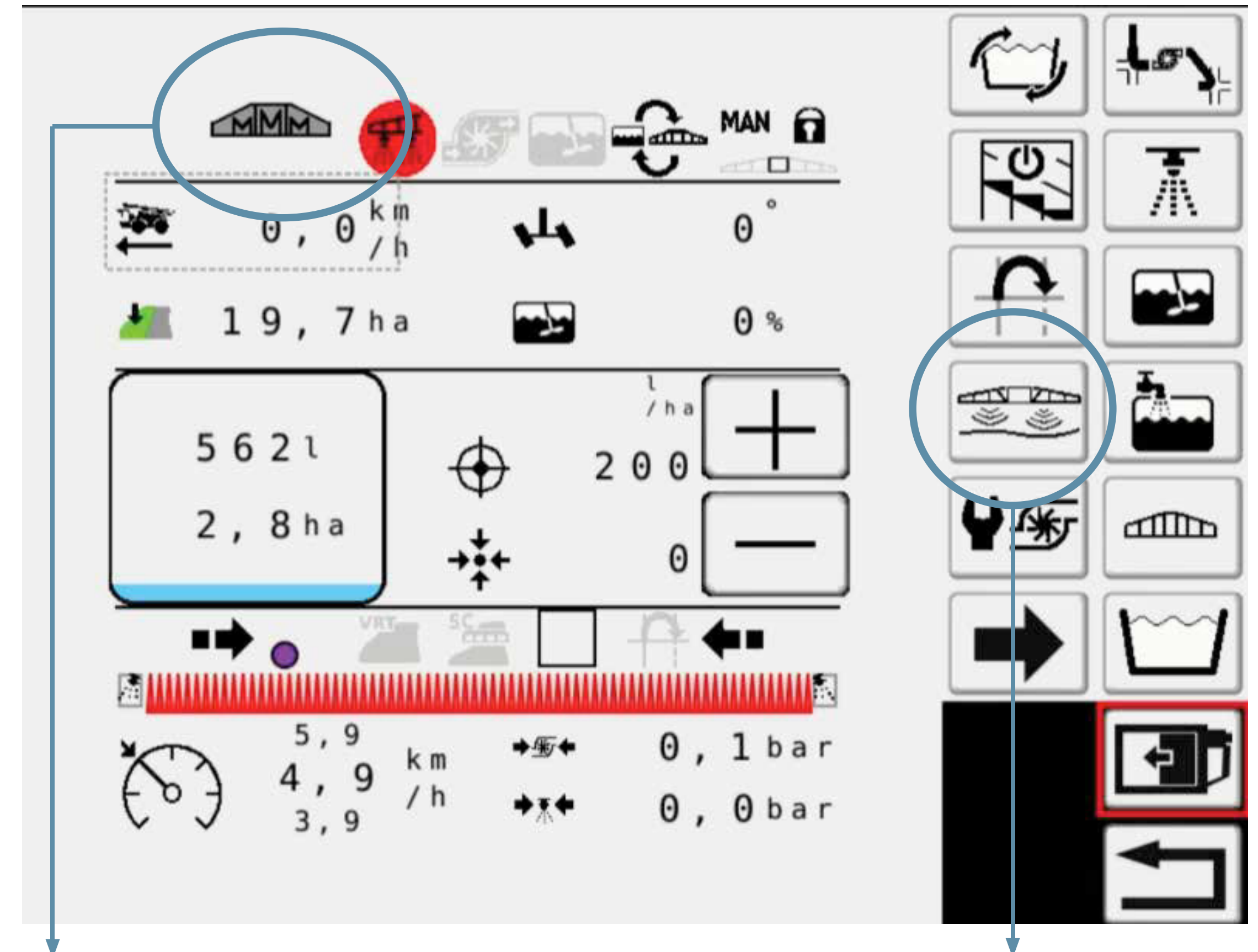
- Greater accuracy: the distance to the target surface is maintained exactly
- Greater stability of the boom: less deviation between the boom segments – if the left section reacts to an obstacle, the right section remains horizontal
- Better control: advanced control algorithms enable better adaptation to different field situations



OptiSonic BHC.

Fully integrate the new OptiSonic BHC controls into the existing ISOBUS system.

- The boom height can be adjusted via the user interface, the 4-way multifunction joystick or the additional MFL control lever.
- The operating logic with the MFL control lever is unchanged compared to the Norac BHC.



Headland management status
(Auto/Manual)

Settings menu
Boom height management

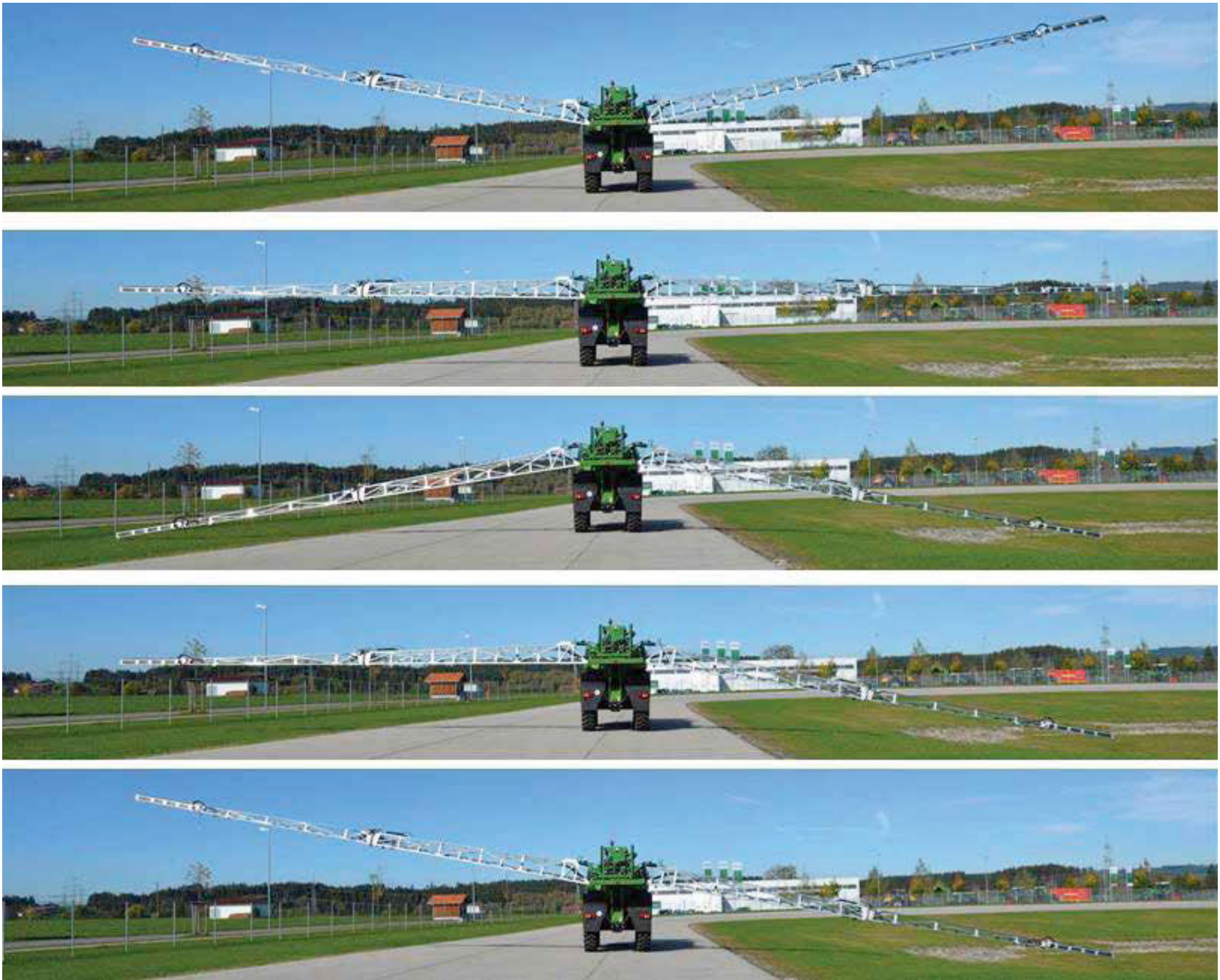
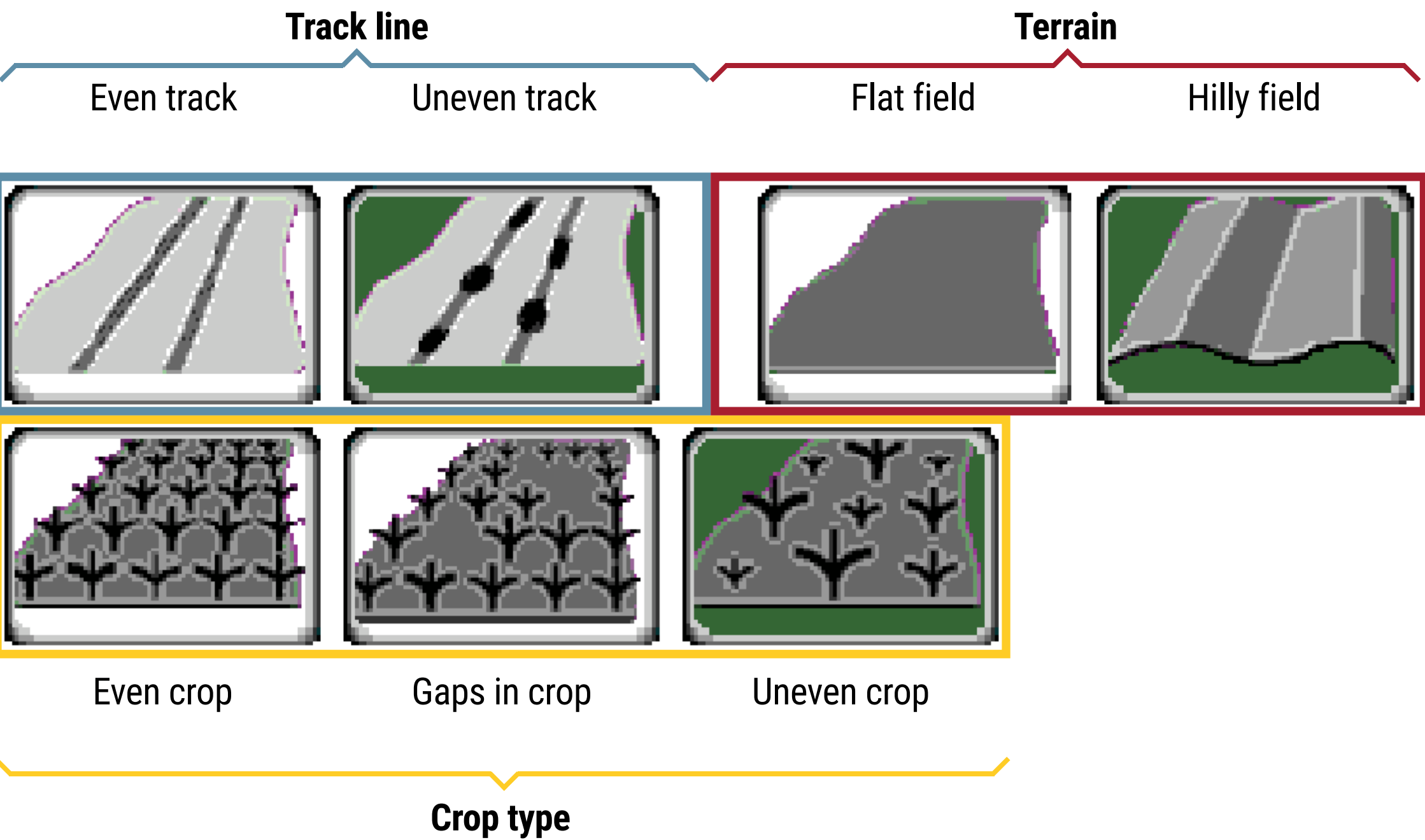
OptiSonic BHC.

Control behaviour

The control behaviour of the boom height management is dynamic and reacts to the following parameters, for example:

- Ground speed
- Deviation from defined target height

Different control modes can be combined:

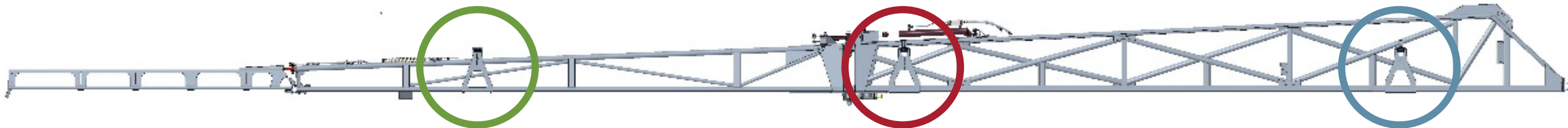


Independently adjust the left and right beam wing, even with negative wing inclination

OptiSonic BHC.

OptiSonic with 6 sensors:

- With the S-B016 option, the inner (blue) and the outer (green) sensors are used. The third sensor (red) is not active.
- If the boom is half-folded or used with a special folding mechanism, the inner (blue) and middle (red) sensors are used. The third sensor (green) is not active.
- Optional S-B016 must be selected if a boom with 3 m special folding (S-B022/23) is fitted, or if a double-folded boom is also to be used with half the working width.
- If the machine is equipped with 6 sensors, it also has a row crop mode that improves boom management in row crops.

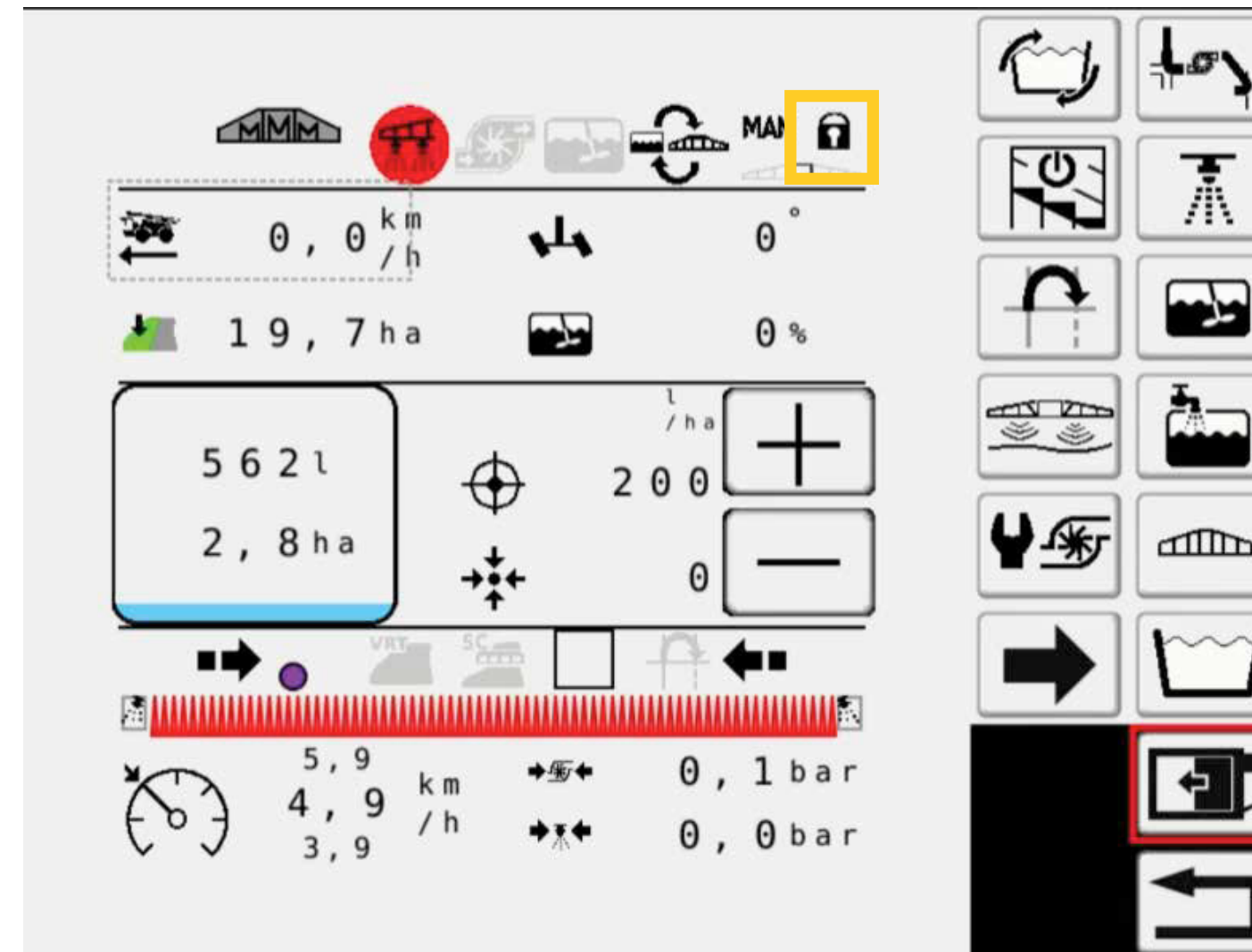


	OptiSonic BHC	OptiSonic BHC
Sensors	4	6
ECU	Sprayer ECU	Sprayer ECU
Active roll	Yes	Yes
V-Code	S-B015	S-B016

Boom lock.

How it works

- Hydraulically operated balance lock, required for folding the boom sections
- Activation via button on the armrest (LED on = boom balance locked)
- The boom automatically assumes the centre position when the boom balance is locked
- Status display in the terminal



Boom.

Double-folded boom

Updated boom design (MY20)

Triple-folded boom

Nozzle units

Boom lighting



Double-folded boom.

Features

- Trapezoidal beam design for high torsional rigidity
- The ends of the booms fold away for protection
- Fast folding and unfolding (30 sec.)
- Only one folding hinge for greater stability of the boom
- Boom tip cover plate
- Lightweight
- Resistant to corrosion
- No painting required



Trapezium beam shape
Fully enclosed nozzles



Boom collision protection

Triple-folded boom.

Features

- Working width, triple-folded
 - 39/27(14) m
- Compatible with all nozzle bodies
- With HD centre frame as standard
- Sturdy and lightweight aluminium construction
- Can be operated with 39 m or 27 m working width, 14 m is not possible
- Collision protection with a length of 2.5 m on the outer segments of the boom, protects the entire boom



Nozzle units.

Features

- 50 cm nozzle gap
- 5-fold rotary nozzle body – as standard
- Electro-pneumatic individual control of the nozzles
- Safe mounting position, nozzles are protected by the boom construction
- End-row nozzles on request



Nozzle units.

Control and selection

- Switch between several nozzles from the cab
- Controlled on the terminal
- Enabled on the go
- Quick adaptation to different applications/circumstances
- The electro-pneumatic nozzle bodies form the basis for the OptiNozzle function, which allows the nozzles to be selected automatically while driving.
(Requires TwinLine or QuadLine nozzle body)



TwinLine nozzle body



QuadLine nozzle body



SingleLine nozzle body

Boom lighting.

Lighting options

- Halogen:
 - 4x Blue halogen nozzle headlights included in halogen work light package S-E015
- LED:
 - LED package incl. 4 nozzle headlights included in LED worklight package S-E018
- Same effect as individual nozzle lights
- Mounted in front of nozzle to prevent spray agent building up on the lights



Storage compartments.

Safety

Lockable storage compartments



Safety.

Soap dispenser and storage compartment for protective clothing

- More comfort and security for the driver



- Soap dispenser for hand washing



- Storage compartment for gloves and protective clothing
- Keeps PPE out of the Cat 4-certified cab

Lockable storage compartments.

Storage compartments for plant protection products and attachments

- Lockable storage compartments for the safe transport of equipment and accessories on the road



- Storage compartment for plant protection products



- Toolbox and small parts
- Sealed to prevent the ingress of water and dust

Fendt Rogator 600 – Additional equipment

Additional extras.



Additional extras.



Trailer coupling



Hands-free radio



Additional EHS valve



Additional Varioterminal 10.4"



Hose reel air/water



Range of camera options

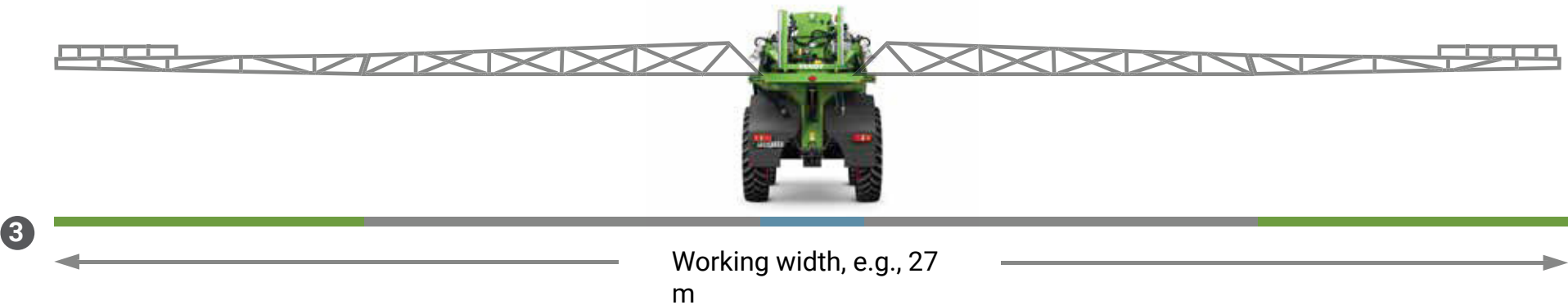
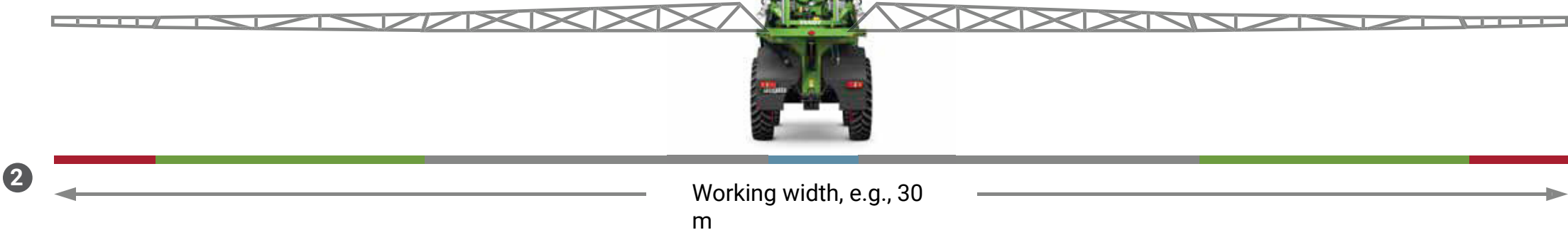
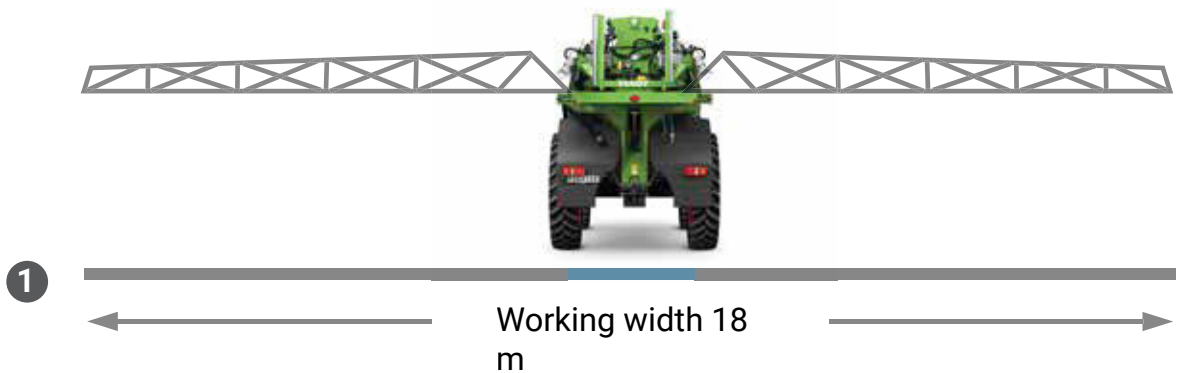


Tyre options from 320 to 710 mm



Various edge nozzles

- Segment 1
- Segment 2
- Special folding
- Central segment



Booms (24 to 36 m) and special folding options

Trailer coupling.

Automatic trailer coupling



Automatic trailer coupling.

Features

- Coupling point at 80 cm
- Rockinger automatic 38 mm
- Camera for coupling point
- Automatically controlled, pneumatic trailer brakes
- Max. trailer weight:
 - 16,000 kg



Certifications.



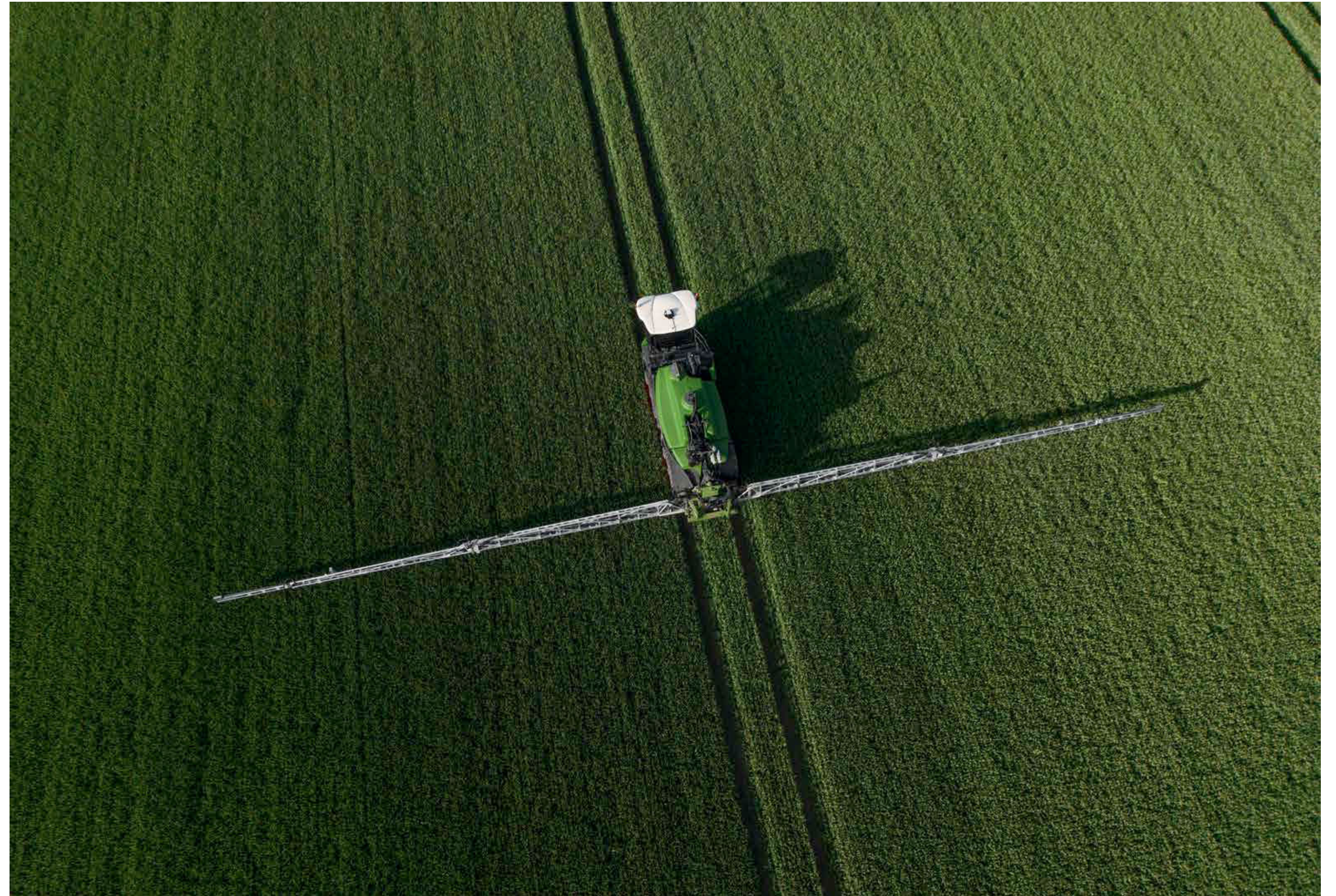
Certifications.



- Rogator is recognised by ENTAM
- Hohenmölsen is a JKI-recognised facility for spray tests
- The JKI test is carried out in accordance with European test regulations and is therefore also recognised in other European countries

Fendt Rogator 600 – Unique features

Unique features.



Unique features.

Chassis and dimensions

- < 2.55 metres outside width
- 40 km/h permitted (France)
- Single carrier chassis specially developed for pure field sprayers
- Low centre of gravity

Weight

- 50/50 weight distribution front/rear
- Better traction
- Better stabilised boom

Engine

- Low fuel consumption
- No EGR, only AdBlue to fulfil Stage V
- AGCO's own engine, servicing and maintenance by AGCO dealer
- High installation position of the cooling pack prevents radiator blockages caused by foreign bodies

HydroStar CVT

- Coupled with fuel-saving HydroStar CVT drive train for low fuel consumption
- With traction control as standard for constant power transmission to the ground
- Cruise control for greater ease of use
- Final drives separated from wheel motor (more durable)
- Wheel drive via variable displacement motors, fed by variable displacement pump

Hydraulics

- Separate hydraulics for drive and control of the spray pump
- Load detection to reduce fuel consumption
- Fixed hydraulic lines instead of hydraulic hoses to prevent leaks

Unique features.

Steering

- 35° steering angle enables a turning radius of 3.14 metres
- Less damage to the plants, easy to manoeuvre
- Wide tyres with large diameters available, without steering restrictions

Wheel suspension

- Single wheel suspension
- Two working heights
- Maintenance-free suspension and axles (no grease required)

Cab

- With Cat 4 certification as standard
- Largest cab on the market
- Very quiet, under 69 dB(A)

Controls in the cab

- Controls and software developed in-house for the spray package
- Familiar AGCO controls
- Separate symbols for all functions

Section control

- Sections of up to one metre possible
- Manual or automatic control
- Customisable overlap settings
- Headlands can be sprayed after the main field

Lighting

- LED package available for better visibility when spraying in the dark

Unique features.

OptiFlow filling station

- Easy to operate even with gloves
- With automatic filling stop as standard
- Large spray agent intake with high suction capacity

ContiRinse

- Reduced cleaning time due to cleaning while driving
- Uncomplicated cleaning of all pipes and hoses that are part of the fluid system with minimal dilution thanks to the positive displacement principle

Spray agent tank

- Specially designed for the chassis (weight distribution)
- No baffles required
- Wide tank for low centre of gravity

Spray agent flow control

- Flow-based volume control for precise application
- Centrifugal pump with 785 l/min for high capacity and low operating costs

Boom lift arm

- Revolutionary design of the boom lifting arm for optimum stability of the boom

Centre frame

- Specially designed for the combination of boom/chassis/wheel suspension
- Dampens all forces in the boom in all directions

Stability of the boom

- Lowest coefficient of variation (CV) for best application results (precise application, always the same amount of spray agent per cm²)

Unique features.

Boom height management

- Individually adjustable boom inclination, also in the negative range
- Automatic control of boom symmetry

Boom

- Lightweight aluminium boom with high torsional rigidity
- Resistant to liquid fertiliser, etc.
- Two joints for greater stability of the boom

Storage compartments

- Lockable storage compartment for chemicals

Trailer coupling

- Can tow trailers of up to 16 tonnes
- Automatic activation of the trailer brake when braking via the speed control lever

Savings on plant protection products

- Cost reduction without sacrificing plant quality

Financial advantages

- Lowest total costs (total cost of ownership)
- Maximum return

Design

- Professional appearance, appealing to professional farmers and contractors

Unique features.

- 
- Cat-4 Certification
 - Dedicated controls for spraying
 - Cool box
 - Low noise level
 - Software developed by FENDT
 - Up to 6,300 litres
 - Low centre of gravity
 - No baffles
 - Perfect weight balance
 - Engine from AGCO Power
 - Automatic control of the engine speed
 - AdBlue, but no EGR
 - Ideal boom lifting arm
 - Asymmetrical wing inclination with negative angle
 - Balance matched to chassis
 - Lowest driving costs
 - Single beam chassis
 - Single wheel suspension
 - Height adjustment
 - Aluminium
 - Two folding hinges
 - Fully enclosed nozzles
 - - >2 m diameter
 - Width from 320 to 710
 - 35° Steering angle
 - Automatic tank refill
 - Spray agent pick-up with high capacity
 - Rotary pump
 - HydroStar CVT
 - Final drives designed for tough operating conditions
 - Four-wheel drive and all-wheel steering

Technical specifications.





fendt.com | Fendt is a worldwide brand of AGCO.

Standard and optional equipment

Standard: ☒

Optional: ☐

Technical specifications.

		Rogator 645	Rogator 655	Rogator 665
Main tank				
Nominal capacity	litres	5000	5000/6000	6000
Maximum capacity	litres	5200	5200/6300	6300
Material: High-density polyethylene (HDPE)		☒	☒	☒
Access for tank inspection	cm	38	38	38
Clean water tank				
Capacity	litres	500	500/660	500/660
Material: High-density polyethylene (HDPE)		☒	☒	☒
Filter				
Suction filter	mesh	12	12	12
Pressure filter	mesh	80	80	80
Plumbing				
Suction side	inch	3	3	3
Pressure side	inch	2	2	2
Material: High-density polyethylene (HDPE)		☒	☒	☒



fendt.com | Fendt is a worldwide brand of AGCO.

Standard and optional equipment

Standard: ☒

Optional: ☐

Technical specifications.

		Rogator 645	Rogator 655	Rogator 665
Suction valve				
Ball valve	inch	2 & 3	2 & 3	2 & 3
Manual 5-way valve		☒	☒	☒
Electric 5-way valve		☐	☐	☐
Spray pump				
Pump type: Centrifugal pump		☒	☒	☒
Brand: Hypro		☒	☒	☒
Type: 9306		☒	☒	☒
Maximum capacity at 2.5 bar	l/min	785	785	785
Maximum pressure	bar	8,5	8,5	8,5
Stainless steel centrifugal pump		☐	☐	☐
Chemical inductor				
Volume	litres	60	60	60
Fluid intake capacity	l/min	200	200	200
Capacity for solids	kg/min	33	33	33
Rinse system	bar	6	6	6
Cleaning gun**		☐	☐	☐

Technical specifications.



fendt.com | Fendt is a worldwide brand of AGCO.

Standard and optional equipment

Standard: ☒

Optional: ☐

Rogator 645Rogator 655Rogator 665

Boom and spray equipment

Plumbing	inch	1	1	1
Single diffuser switch		☒	☒	☒
Maximum number of sections including endrow nozzles	number	72	72	72
Boom widths	m	24 - 27 - 28 - 30 - 32 - 33 - 36 - 39	24 - 27 - 28 - 30 - 32 - 33 - 36 - 39	24 - 27 - 28 - 30 - 32 - 33 - 36 - 39
Material: Aluminium		☒	☒	☒
Max. working height*	m	2,9	2,9	2,9
Min. working height*	m	0,5	0,5	0,5
OptiSonic boom height control with 4 sensors		☐	☐	☐
OptiSonic boom height adjustment with 6 sensors		☐	☐	☐
Independent boom geometry		☒	☒	☒
Nozzle spacing	cm	50	50	50
Reelerhose water**		☐	☐	☐
Reeler hose air		☐	☐	☐

Technical specifications.



fendt.com | Fendt is a worldwide brand of AGCO.

Standard and optional equipment

Standard: ☒

Optional: ☐

		Rogator 645	Rogator 655	Rogator 665
Drawbar and Coupler				
Automatic drawbar		☐	☐	☐
Towing eye	mm	38	38	38
Max weight trailer hitch	kg	16.000	16.000	16.000
Axle and Brakes				
Fixed axle		☒	☒	☒
Hydraulic adjustable axle		☐	☐	☐
Steering axle		☐	☐	☐
Steering angle*	degrees	35	35	35
AWS (all-wheel steering)		☒	☒	☒
Track width*	m	1,80 - 2,25	1,80 - 2,25	1,80 - 2,25
Pneumatic brakes		☐	☐	☐
Pneumatic brakes with ALB		☐	☐	☐
Hydraulic brakes		☐	☐	☐
Wet disc brakes integrated in final drive		☒	☒	☒

Technical specifications.



fendt.com | Fendt is a worldwide brand of AGCO.

Standard and optional equipment

Standard: ☒

Optional: ☐

Rogator 645 Rogator 655 Rogator 665

Tires and Fenders

Diameter 320/105R46	m	1,84	1,84	1,84
Diameter 380/90R46	m	1,84	1,84	1,84
Diameter 380/90R54	m	2,05	2,05	2,05
Diameter 420/95R50	m	2,05	2,05	2,05
Diameter 480/80R50	m	2,05	2,05	2,05
Diameter 520/85R46	m	2,05	2,05	2,05
Diameter 620/70R42	m	1,95	1,95	1,95
Diameter 620/75R34	m	1,81	1,81	1,81
Diameter 710/75R34	m	1,90	1,90	1,90
Fenders outside width	m	2,55	2,55	2,55
Wide fenders, outside width	m	3,00	3,00	3,00



fendt.com | Fendt is a worldwide brand of AGCO.

Standard and optional equipment

Standard: ☒

Optional: ☐

Technical specifications.

		Rogator 645	Rogator 655	Rogator 665
Engine				
AGCO Power engine		☒	☒	☒
Model		AP7.4-4	AP7.4-4	AP7.4-4
Displacement	litres	7,4	7,4	7,4
Emissions standard	Stage	5 / V	5 / V	5 / V
Cylinders	number	6	6	6
Rated power ISO14396	kW/hp	155 / 210	192 / 261	221 / 300
Maximum power ISO14396	kW/hp	173 / 235	200 / 272	226 / 307
Max. torque at 1500 rpm	Nm	1000	1060	1200
Alternator	A	200	200	200
Electric system	V	12	12	12
Hydrostat				
Bosch Rexroth		☒	☒	☒
Pump displacement	cm ³	145	175	175
Wheel motor displacement	cm ³	85	85	85
Top speed at 1750 engine rpm***	km/h	50	50	50
Reduced engine speed at 40 km/h		☒	☒	☒



fendt.com | Fendt is a worldwide brand of AGCO.

Standard and optional equipment

Standard: ☒

Optional: ☐

Technical specifications.

		Rogator 645	Rogator 655	Rogator 665
Suspension				
Single wheel suspension		☒	☒	☒
Min. ground clearance*	cm	75	75	75
Max. ground clearance*	cm	120	120	120
Cab				
AGCO Vision cab		☒	☒	☒
Internal volume	m³	4	4	4
Automatic airconditioning		☒	☒	☒
Cat 4 approved		☒	☒	☒
Integrated cooling box		☒	☒	☒
Fluid capacity				
Fuel	litres	310	310	310
AdBlue	litres	50	50	50
Hydraulic oil	litres	230	230	230
Engine oil	litres	24	24	24
Engine coolant	litres	29	29	29

Technical specifications.



fendt.com | Fendt is a worldwide brand of AGCO.

Standard and optional equipment

Standard: ☒

Optional: ☐

		Rogator 645	Rogator 655	Rogator 665
Weight				
Empty (depending machine options)	kg	12200	12500	12500
Air system				
1 cylinder engine mounted		☐	☐	☐
Maximum pressure	bar	8,0	8,0	8,0
Maximum volume	l/min	200	200	200
Tank capacity	litres	30	30	30
Air dryer	number	1	1	1
Dimensions				
Length	m	9,25	9,25	9,25
Width*	m	2,55	2,55	2,55
Height*	m	3,98	3,98	3,98
Ground clearance*	cm	75	75	75
Wheel base	m	3,6	3,6	3,6

Technical specifications.



fendt.com | Fendt is a worldwide brand of AGCO.

Standard and optional equipment

Standard: ☒

Optional: ☐

		Rogator 645	Rogator 655	Rogator 665
Controls				
ISOBUS		☒	☒	☒
OptiControl lever		☒	☒	☒
Second 10.4" Varioterminal		☐	☐	☐
Reverse camera		☐	☐	☐
Optiflow control panel		☒	☒	☒
Guidance system				
Guidance system basic package		☒	☒	☒
VarioGuide Standard NovAtel		☒	☒	☒
VarioGuide RTK NovAtel incl. ntrip		☐	☐	☐
Contour Assistant		☒	☒	☒

Technical specifications.



fendt.com | Fendt is a worldwide brand of AGCO.

Standard and optional equipment

Standard: ☒

Optional: ☐

		Rogator 645	Rogator 655	Rogator 665
Agronomy				
Agronomy basic package		☒	☒	☒
Telemetry				
Telemetry basic package		☒	☒	☒
Smart Connect		☒	☒	☒
Machine control				
Machine control basic package		☒	☒	☒
Section Control		☒	☒	☒
Variable Rate Control		☒	☒	☒
OptiNozzle		☐	☐	☐
SpeedControl		☐	☐	☐



Fendt Services.

Fendt Services

Fendt Care



Fendt Services.

A Fendt machine is a high-tech product for the highest of demands. Accordingly, the certified Fendt sales partners offer first-class service.

The best product under the best protective shield

Extraordinary service partners and service:

- A short distance between our trained service employees and you
- 24/7 Replacement parts availability during the season
- 12 month guarantee on Fendt original parts and installation

100 % quality. 100 % Service: Fendt Services

- Fendt Demonstration Service
- Fendt Expert Driver Training
- AGCO Finance – Financing and Leasing Offers
- Fendt Care – Service contracts and warranty extension
- Fendt Certified – Used machine programme



You can contact the certified service partners around the clock via the Fendt Customer Hotline

+44 330 123 9909

Fendt Services.

Ensure the operation of tomorrow today.

Fendt Demonstration Service

- Get on and try it out, instead of just talking about it
- Basis for an optimal decision-making process

Fendt Expert Driver Training

- Exclusive practical training with professional trainers
- Optimization of efficiency by learning all of the functions and exploiting the entire performance potential of the Fendt machine

Individual financing and leasing models

- Credit financing by AGCO Finance with attractive conditions, flexible terms and projectable costs
- Tailored leasing offers via the Fendt sales partner

Fendt Care – Service contracts and warranty extension

- Tailored maintenance and repair service that goes beyond the warranty
- Maximum safety of use
- Flexible terms and rates with and without deductible
- Full cost control and planning security
- Only original parts used with guaranteed production quality and tested for reliability for maximum value retention of the Fendt machine

Fendt Certified* – Used machine programme

Used agricultural machines with proven high-quality and certified Fendt quality

Advantages:

- Certification according to demanding quality standards
- Extensive initial check (technology, wear, appearance)
- Meticulous maintenance of wearing parts
- replacement, cleaning and painting of components as needed
- Includes warranty

*Fendt Certified only available in GB/FR

Fendt Care.

Cost control and planning security with the Fendt Care rates

- Comprehensive range of services to ensure operational safety and repairs on new machines
- Full cost control with the best service
- Tailored solution for the fleet from maintenance contract to complete worry-free package including replacement machine



Smartphone-App “AGCO Parts Books to go”

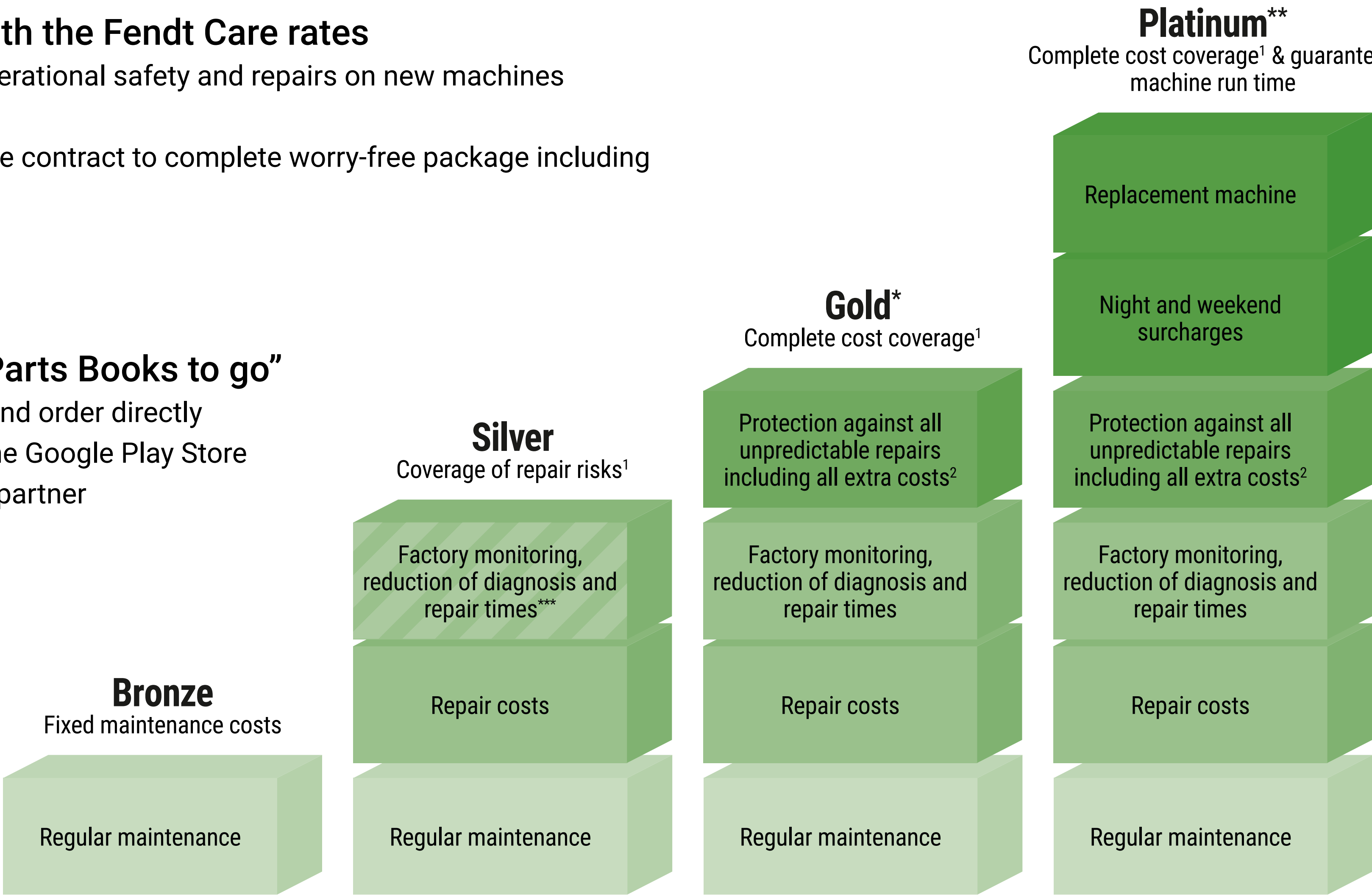
- Find replacement parts quickly and order directly
- Download via the App Store or the Google Play Store
- Access data via the Fendt sales partner



App Store



Google Play Store



Fendt Care.



	Bronze	Silver	Gold*	Platinum**						
		 Cost advantages with Fendt Connect (optional)	 Only for tractors with Fendt Connect							
Available for	Complete Fendt Portfolio	Complete Fendt Portfolio	Wheeled tractor with Fendt Connect & telescopic loader ⁸	Wheeled tractor with Fendt Connect						
Customer benefit (deductible)		Coverage of large-scale damage ³ (490 €)								
	Operation safety of the machine	Comprehensive coverage at attractive rates (190 €)	Complete coverage with full cost control including all extra costs (0 €)	Complete coverage with full cost control including all extra costs & guaranteed machine run time (0 €)						
		Complete coverage with full cost control (0 €)								
Maximum coverage Warranty extension	 8 Years / 8,000 OH	 5 Years / 3,000 OH	 5 Years / 5,000 OH	 3 years / 2,000 OH⁴	 3 years / 4,000 OH⁵	 3 years / 25,000 bales⁶	 5 Years / 50,000 Bales	 8 Years / 4,000 pump-H	 5 Years / 8,000 OH	 5 years / 750 OH⁷
OH = operating hours; H = hours; ¹ excluding wear and tear; ² travel costs, recovery / towing, troubleshooting with additional diagnostic tools, use of dynamometer, oils and filters if engine / transmission is repaired; ³ only available for machines with self-propelled & RG300 & Momentum; ⁴ ISOBUS-enabled machines only; ⁵ PR, VR & XR only; ⁶ incl. Rollector; ⁷ Momentum 16 & 24 only; ⁸ Gold rate for telehandler also available without Connect; * Gold rate only available in DE/FR/GB/IT/BG/CZ/EE/HR/HU/LT/FI/LV/MD/RO/RS/SE/SI/SK/UA/AT/LU/NL/CH/BE/BY/NO/PL/DK; ** Platinum only available in DE, EN, FR; *** optional with Fendt Connect										